

0 ICOM

SERVICE MANUAL

HF ALL BAND TRANSCEIVER

Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the **IC-725** HF ALL BAND TRANSCEIVER at the time of going to press.

If you require assistance or further information regarding the operation and capabilities of the **IC-725**, contact your nearest authorized Icom Dealer or Icom Service Center.

DANGER

NEVER connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. This will ruin the transceiver.

DO NOT expose the transceiver to rain, snow or any liquids.

DO NOT reverse the polarities of the power supply when connecting the transceiver.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.



ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit order numbers
- 2. Component part number and name
- 3. Equipment model name and unit name
- 4. Quantity required

<SAMPLE ORDER>

1110001310	IC	μPC577HA	IC-725	MAIN UNIT	5 pieces
8810005510	Screw	PH M3 × 6 ZK BS	IC-725	Top cover	10 pieces

Addresses are provided on the inside back cover for your convenience.

REPAIR NOTE

- 1. Make sure a problem is internal before disassembling the transceiver.
- 2. **DO NOT** open the transceiver until the transceiver is disconnected from a power source.
- 3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
- DO NOT short any circuits or electronic parts. An insulated tuning tool MUST be used for all adjustments.
- 5. **DO NOT** keep power ON for a long time when the transceiver is defective.
- 6. **DO NOT** transmit power into a signal generator or a sweep generator.
- 7 ALWAYS connect a 40 dB~50 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- 8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

TABLE OF CONTENTS

SECTION 2 INSIDE VIEWS. 2-1~2 SECTION 3 BLOCK DIAGRAM 3-1 SECTION 4 CIRCUIT DESCRIPTION. 4-1 4-1 RECEIVER CIRCUITS 4-1 4-2 TRANSMITTER CIRCUITS. 4-4 4-3 PLL CIRCUITS. 4-6 4-4 4-5 REGULATOR CIRCUITS. 4-7 4-5 REGULATOR CIRCUITS. 4-7 5 REGULATOR CIRCUITS. 5-1 5 TRAME DISASSEMBLY 5-1 5 PL UNIT AND ACCESSORIES 5-5 5 SECTION 6 ADJUSTMENT PROCEDURES 6 1 PREPARATION BEFORE SERVICING. 6-1	SECTION	1	SPECIFICATIONS	1-1
SECTION 4 CIRCUIT DESCRIPTION. 41~7 4-1 RECEIVER CIRCUITS 41 4-2 TRANSMITTER CIRCUITS 44 4-3 PLL CIRCUITS 46 4-4 LOGIC CIRCUITS 47 4-5 REGULATOR CIRCUITS 47 4-5 REGULATOR CIRCUITS 47 5 REGULATOR CIRCUITS 51 5 FRANT AND PARTS AND DISASSEMBLY 51 5 PA UNIT AND ACCESSORIES 53 5 FRONT AND PLL UNITS CONNECTOR ASSEMBLY 56 5 FRONT AND MAIN UNITS CONNECTOR ASSEMBLY 57 SECTION 6 ADJUSTMENT PROCEDURES 61 6 1 PREPARATION BEFORE SERVICING 6-1	SECTION	2	INSIDE VIEWS	— 1 ~·2
4-1 RECEIVER CIRCUITS 4-1 4-2 TRANSMITTER CIRCUITS 4-4 4-3 PLL CIRCUITS 4-6 4-4 4-3 PLL CIRCUITS 4-7 4-5 REGULATOR CIRCUITS 4-7 SECTION 5 MECHANICAL PARTS AND DISASSEMBLY 5-1 5-1 5-1 5-1 7 5-1 FRAME DISASSEMBLY 5-1 5-3 5-2 PA UNIT AND ACCESSORIES 5-3 5-3 5-3 FRONT AND PLL UNITS CONNECTOR ASSEMBLY 5-6 5-5 5-4 FRONT AND MAIN UNITS CONNECTOR ASSEMBLY 5-6 5-7 SECTION 6 ADJUSTMENT PROCEDURES 6-1 -7 6-1 PREPARATION BEFORE SERVICING 6-1 -7 6-3 RECEIVER ADJUSTMENT 6-4 6-4 TRANSMITTER ADJUSTMENT 6-4 6-4 TRANSMITTER ADJUSTMENT 6-6 6 5 7-1 -5 7-1 FRONT UNIT 7-1 7-1 -7 -7 -1 -5 7-1 FRONT UNIT 7-2 7-1 7-5 </th <th>SECTION</th> <th>3</th> <th>BLOCK DIAGRAM</th> <th>3 — 1</th>	SECTION	3	BLOCK DIAGRAM	3 — 1
5-1 FRAME DISASSEMBLY 5-1 5-2 PA UNIT AND ACCESSORIES 5-3 5-3 FRONT AND PLL UNITS CONNECTOR ASSEMBLY 5-5 5-4 FRONT AND MAIN UNITS CONNECTOR ASSEMBLY 5-6 5-5 PA AND FILTER UNITS CONNECTOR ASSEMBLY 5-7 SECTION 6 ADJUSTMENT PROCEDURES 6-1 6-1 PREPARATION BEFORE SERVICING: 6-1 6-2 PLL ADJUSTMENT 6-2 6-3 RECEIVER ADJUSTMENT 6-4 6-4 TRANSMITTER ADJUSTMENT 6-4 6-4 TRANSMITTER ADJUSTMENT 6-6 SECTION 7 BOARD LAYOUTS 7-1 7-1 FRONT UNIT 7-1 7-2 MAIN UNIT 7-2 7-3 PLL UNIT 7-3 7-4 PA UNIT. 7-5 7-5 DDS UNIT 7-5 7-6 AM • FM UNIT (OPTIONAL) 7-5 SECTION 8 PARTS LIST 8-1 ~13 SECTION 9 VOLTAGE DIAGRAMS 9-1 ~2 9-1 FRONT AND MAIN UNITS 9-1 9-1	SECTION	4 - 1 4 - 2 4 - 3 4 - 4	RECEIVER CIRCUITS TRANSMITTER CIRCUITS. PLL CIRCUITS LOGIC CIRCUITS.	4 - 1 4 - 4 4 - 6 4 - 7
6-1 PREPARATION BEFORE SERVICING: 6-1 6-2 PLL ADJUSTMENT 6-2 6-3 RECEIVER ADJUSTMENT 6-4 6-4 TRANSMITTER ADJUSTMENT 6-6 SECTION 7 BOARD LAYOUTS 7-1~5 7-1 FRONT UNIT 7-1 7-2 MAIN UNIT 7-2 7-3 PLL UNIT 7-3 7-4 PA UNIT 7-5 7-6 AM • FM UNIT (OPTIONAL) 7-5 SECTION 8 PARTS LIST 8-1~13 SECTION 9 VOLTAGE DIAGRAMS 9-1~2 9-1 FRONT AND MAIN UNITS 9-1	SECTION	5 - 1 5 - 2 5 - 3 5 - 4	FRAME DISASSEMBLY PA UNIT AND ACCESSORIES FRONT AND PLL UNITS CONNECTOR ASSEMBLY FRONT AND MAIN UNITS CONNECTOR ASSEMBLY	5 - 1 5 - 3 5 - 5 5 - 6
7 · 1 FRONT UNIT. 7 - 1 7 · 2 MAIN UNIT 7 - 2 7 · 3 PLL UNIT. 7 - 3 7 · 4 PA UNIT. 7 - 4 7 · 5 DDS UNIT. 7 - 5 7 · 6 AM • FM UNIT (OPTIONAL) 7 - 5 SECTION 8 PARTS LIST. 8 - 1 ~ 13 SECTION 9 VOLTAGE DIAGRAMS 9 - 1 ~ 2 9 · 1 FRONT AND MAIN UNITS 9 - 1	SECTION	6 - 1 6 - 2 6 - 3	PREPARATION BEFORE SERVICING. PLL ADJUSTMENT RECEIVER ADJUSTMENT.	6 — 1 6 — 2 6 — 4
SECTION 9 VOLTAGE DIAGRAMS 9-1~2 9-1 FRONT AND MAIN UNITS 9-1	SECTION	7 - 1 7 - 2 7 - 3 7 - 4 7 - 5	FRONT UNIT MAIN UNIT PLL UNIT PA UNIT DDS UNIT	7 — 1 7 — 2 7 — 3 7 — 4 7 — 5
9-1 FRONT AND MAIN UNITS	SECTION	8	PARTS LIST	1~13
	SECTION	9-1	FRONT AND MAIN UNITS	9 — 1

SECTION 1 SPECIFICATIONS

GENERAL

Frequency coverage	: Receive 500 kHz~30 MHz Transmit 160-m band 1.8~ 2.0 MHz 17-m band 18.068~18.168 MHz
	80-m band 3.5~ 4.0 MHz 15-m band 21.0 ~21.45 MHz
	40-m band 7.0~ 7.3 MHz 12-m band 24.89 ~24.99 MHz
	30-m band 10.1 \sim 10.15 MHz 10-m band 28.0 \sim 29.7 MHz
	20-m band 14.0~14.35 MHz
Modes	: SSB (A3J), CW (A1), AM (A3), FM (F3)
	(UI-7 AM · FM UNIT is required for AM transmit and FM transmit/receive.)
 Number of memory channels 	: 26
 Antenna impedance 	50 Ω unbalanced
 Usable temperature range 	: −10 °C~+60 °C (+14 °F~+140 °F)
 Frequency stability 	: Less than ±200 Hz up to one hour after power is turned ON.
	Less than ± 30 Hz after one hour at ± 25 °C (± 77 °F).
	Less than ±350 Hz at 0 °C~+50 °C (+32 °F~+122 °F).
 Power supply requirement 	: 13.8 V DC ±15 %, negative ground
 Current drain (at 13.8 V DC) 	: Receive squelched 1.2 A max. audio output 1.5 A
	Transmit 20 A
Dimensions	: 241 (W) × 94 (H) × 239 (D) mm 9.5 (W) × 3.7 (H) × 9.4 (D) in (Projections not included)
Weight	: 4.6 kg (10.1 lb)
TRANSMITTER	
Output power	: SSB, CW, FM 10~100 W continuously adjustable
	AM 10~40 W continuously adjustable
 Spurious emissions 	: More than 50 dB below peak output power
 Carrier suppression 	: More than 40 dB below peak output power
Unwanted sideband	: More than 50 dB down with 1 kHz AF input
Microphone impedance	: 600 Ω
RECEIVER	
 Receive system 	: SSB, CW, AM Double-conversion superheterodyne
	FM Triple-conversion superheterodyne
 Intermediate frequencies 	: 1st SSB 70.4515 MHz
	CW 70.4506 MHz
	AM, FM 70.4500 MHz
	2nd SSB 9.0115 MHz
	CW 9.0106 MHz
	AM, FM 9.0100 MHz
	3rd FM 455 kHz
 Sensitivity (preamplifier ON) 	: SSB, CW (10 dB S/N) 1.8~30 MHz Less than 0.15 μV (-123 dBm)
	AM (10 dB S/N) 0.5~1.8 MHz Less than 13.0 μV (-85 dBm)
	$1.8 \sim 30$ MHz Less than $2.0 \ \mu V$ (-101 dBm)
	FM (12 dB SINAD) 28~30 MHz Less than 0.5 μ V (-113 dBm)
• FM squelch sensitivity	: Less than 0.3 μ V (preamplifier ON)
Selectivity	: SSB, CW More than 2.3 kHz/-6 dB Less than 4.0 kHz/-60 dB
	AM More than 6.0 kHz/ -6 dB Less than 20.0 kHz/ -40 dB
	FM More than 15 kHz/-6 dB Less than 30 kHz/-50 dB
Spurious response rejection Audio output impodance	More than 70 dB
Audio output impedance Audio output power	: 8 Ω : More than 2.6 W at 10 % distortion with an 8 Ω load
 Audio output power RIT variable range 	: More than $\pm 1 \text{ kHz}$
- IIII vanable lange	

•

All stated specifications are subject to change without notice or obligation.

SECTION 2 INSIDE VIEWS

• PLL UNIT



• MAIN UNIT



• PA AND FILTER UNITS



SECTION 3

BLOCK DIAGRAM



SECTION 4 CIRCUIT DESCRIPTION

4-1 RECEIVER CIRCUITS

4-1-1 RF SWITCHING CIRCUIT (PA AND MAIN UNITS)

RF signals from the antenna connector pass through the transmit/receive switching relay (RL13) and a low-pass filter, and are applied to the MAIN UNIT via P2 (MAIN UNIT: J12).

The signals from the PA UNIT either bypass or are attenuated at 20 dB attenuator (R102, R103, RL1). There are no non-linear components between the antenna connector and attenuator to prevent distortion caused by strong signals. The signals are then applied to RF filters.

4-1-2 RF BANDPASS FILTER CIRCUIT (MAIN UNIT)

The RF UNIT has 7 RF bandpass filters (BPF) for signals above 1.6 MHz and 1 low-pass filter (LPF) for signals below 1.6 MHz. The signals pass through one of the bandpass or low-pass filters depending on the receive frequency range.

(1) 0.5~1.6 MHz

A diode is not used at the low-pass filter entrance removing diode distortion from very strong signals. Signals bypass a preamplifier by the bypass switch (Q12).

(2) 1.6 MHz AND ABOVE

Signals are applied to a high-pass filter consisting of L42, L43, C143~C146. This filter suppresses strong signals below 1.6 MHz such as a broadcasting station.

The filtered signals are applied to one of 7 bandpass filters depending on the frequency of the signals and then to the preamplifier circuit (Q8, Q9).

(3) FILTER SWITCHING CIRCUIT

An RF bandpass filter is selected with BPF switching voltage ($B0 \sim B7$) from the CPU via IC16 current amplifier. The switching voltage of the BPF entrance is higher than the BPF exit to improve multi-signal and strong signal characteristics.

4-1-3 PREAMPLIFIER CIRCUIT (MAIN UNIT)

The preamplifier circuit uses low-noise junction FETs $(2SK125 \times 2)$ to provide 10 dB gain over a wideband frequency range.

When the [PRE] switch is turned ON, the signals from the RF filter are amplified by the preamplifier circuit (Q8, Q9). When the [PRE] switch is turned OFF, the signals bypass the preamplifier through D30 and D32. When the operating frequency is below 1.6 MHz, Q12 turns ON and the signals bypass the preamplifier regardless of the [PRE] switch. Amplified or bypassed signals are applied to the 1st mixer circuit via the low-pass filter. The low-pass filter cuts off at 35 MHz to suppress image frequency at the 1st mixer circuit (Q13, Q14).

PREAMP CIRCUIT



Fig. 1

4-1-4 1ST MIXER CIRCUITS (MAIN UNIT)

The signals from the low-pass filter enter the 1st mixer circuit (Q13, Q14) to be converted to a 70.45 MHz 1st IF signal.

EXACTNESS 1ST IF FREQUENCY

MODE	FREQUENCY (MHz)
SSB	70.4515
CW	70.4506
AM, FM	70.4500

The 1st mixer circuit employs a balanced mixer using lownoise junction FETs ($2SK125 \times 2$) to expand the dynamic range.

The 1st LO signal (70.9515~100.4515 MHz) enters the MAIN UNIT from the PLL UNIT via J5. The signal is amplified at Q4, filtered by a low-pass filter, and then applied to the 1st mixer circuit (Q13, Q14). The low-pass filter employs a ring core inductor to prevent 1st LO leakage signals. The output level from Q4 is approx. 25 dBm.

The 1st IF signal is applied to an MCF (Monolithic Crystal Filter; FI1) to suppress out-of-band signals. The signal is amplified at the 1st IF amplifier (Q15), and then applied to the 2nd mixer (IC1).

4-1-5 IF CIRCUITS (MAIN UNIT)

The 1st IF signal from Q15 is converted to a 9 MHz 2nd IF signal at the 2nd mixer (IC1). IC1 is a DBM (Double Balanced Mixer).

EXACTNESS	2ND 1	F FREQUEN	CY

MODE	FREQUENCY (MHz)		
SSB	9.0115		
CW	9.0106		
AM, FM	9.0100		

The 2nd LO signal (61.44 MHz) from the PLL UNIT via J4 is applied to the 2nd mixer. The converted 2nd IF signal passes through D4 (D35 for transmitting) and is applied to the MCF (FI2) to suppress unwanted signals.

The signal output from FI2 passes through the noise blanker gate (D5 \sim D8) and is amplified at the 2nd IF amplifier (Q21). The signal enters one of the three 9 MHz filters (FI3, FI4, optional CW narrow filter) or optional AM \cdot FM UNIT via D52. The filters are selected with mode selecting signals (SSB \cdot CW, AM, CW-N) and the "T8" voltage line.

The signal from a 9 MHz filter is amplified at the 2nd IF amplifiers (Q27 \sim Q29) and applied to the demodulator circuit.

Dual-gate FETs are used on the 1st and 2nd IF amplifiers (Q15, Q21, Q27). The 2nd gates of Q15, Q21 and Q27 are controlled by AGC bias voltage. A rapid time constant is used for Q27 to prevent raising the edge distortion of receive signals.

R140, connected to the gate of Q28, improves the temperature characteristics of the receiver gain. R138 adjusts the receiver gain.

4-1-6 NOISE BLANKER CIRCUITS (MAIN UNIT)

The IC-725 uses a noise trigger noise blanker circuit that cuts out pulse-type noise signals at the noise blanker gate $(D5\sim D8)$.

A portion of the signals from FI2 is amplified at the noise amplifiers (Q16, IC2) and detected at the noise detector (D12, D13). The detected voltage from the noise detector is applied to the noise blanker switch (Q19).

The threshold level of the noise blanker switch is set at 0.9 V. When the detected voltage exceeds the threshold level, Q20 outputs a blanking signal to activate the noise blanker gate ($D5\sim D8$).

A portion of the detected voltage is applied to the noise AGC circuit (Q18) and fed back to the noise amplifier (IC2) as noise AGC voltages. The time constant of the noise AGC circuit is determined by R43, R47 and C60. This AGC circuit does not operate to detect pulse-type noise.

When the operating frequency or mode is changed, the "DNB" signal line becomes "LOW," turning Q20 ON. The noise blanker gate prevents PLL click noise.

4-1-7 BFO CIRCUIT (MAIN UNIT)

A 9 MHz signal oscillated at the BFO circuit (Q31, X1) is buffer-amplified at Q42 and used at the balanced modulator (IC6) and a product detector (IC5). The BFO frequency is shifted with a mode signal using $D67 \sim D69$.

In USB mode, the "USB" signal line becomes "HIGH," turning ON D69. The frequency is then adjusted with C294 to set the USB carrier point.

At CW mode transmitting, the "CW" signal line becomes "HIGH" and Q33 becomes OFF, turning ON D68. The frequency is then adjusted with L83 to set the CW transmit carrier point.

In LSB mode, the "LSB" signal line becomes "HIGH," turning ON D67. The frequency is then adjusted with L82 to set the LSB carrier point.



BFO FREQUENCY IN EACH MODE

MODE	FREQUENCY (MHz)
USB	9.0130
CW (Tx)	9.0106
LSB	9.0100
CW (Rx)	9.0098
AM	NO OUTPUT

4-1-8 DEMODULATOR CIRCUITS (MAIN UNIT)

The IC-725 has 2 detector circuits, a product detector and a diode detector to demodulate the SSB, CW signal and AM signal respectively.

In SSB or CW mode, the 2nd IF signal from the IF amplifier (Q29) is mixed with the BFO signal at the product detector (IC5) to demodulate the 2nd IF signal into an AF signal. The detected signal passes through the AF input mode selector switch (IC8).

In AM mode, the 2nd IF signal from Q29 passed through C121 is detected at D62 and passes through the AF input mode selector switch (IC8).

4-1-9 AF INPUT MODE SELECTOR SWITCH (MAIN UNIT)

The AF signal from a detector circuit or the optional AM · FM UNIT is applied to the AF input mode selector switch (IC8). IC8 consists of 4 analog switches and they are selected with a mode signal from IC15 and the squelch control signal. The AF signal is applied to the AF amp circuit.

MODE	ACTIVATING PIN NUMBERS	CONTROL PIN NUMBER
USB, CW	2→1	13
AM	3→4	5
FM	10→11	12
ANY MODES (for S-meter)	9→8	6

IC8 AF INPUT MODE SELECTOR SWITCH

AGC, S-METER AND SQUELCH CIRCUIT

4-1-10 AF AMP CIRCUIT (MAIN UNIT)

The AF signal from the AF input mode selector switch is applied to the AF preamplifier (Q35, Q36). The CW sidetone signal is applied to Q36.

The output from the AF preamplifier is applied to the [AF] control (FRONT UNIT, R1 b) and the 2.8 kHz cut-off active low-pass filter (Q37). The AF signal is power-amplified at IC9 to drive the speaker.

4-1-11 AGC AND S-METER CIRCUIT (MAIN UNIT)

The receiver gain is determined by the voltage on the AGC line (Q30, collector). When strong signals are received, the AGC circuit decreases the voltage on this line.

The IF signal from the IF amplifier (Q29) passes through C117, is detected at D59 and D60, and applied to the base of Q30. A time constant (C113, R120) is connected to the AGC line that determines the AGC release time.

The time constant is controlled by the [AGC] switch. When the [AGC] switch is pushed OUT, C112 and R119 are connected in parallel with the AGC line to obtain a slow AGC release time.

The AGC bias voltage is applied to the differential amplifier (IC4, pin 6) where the difference between the bias and reference voltages is detected. The resulting S-meter signal passes through the meter switching circuit (IC8) and is then applied to the meter on the front panel. The reference voltage is adjusted with R116. IC8 pins 8 and 9 are connected inside the IC in receiving.

The FM S-meter signal from the optional AM · FM UNIT is applied to the meter switching circuit (IC8) via D57. The signal is also applied to the squelch circuit (IC4 pin 2).



4-1-12 SQUELCH CIRCUIT (MAIN UNIT)

The squelch circuit mutes the audio output when the Smeter signal is lower than the [SQL] control setting level.

The S-meter signal from IC4 pin 7 is applied to the comparator (IC4 pin 2) to be compared to a threshold level controlled by the [SQL] control. The squelch control signal is applied to control terminals of the AF input mode selector switch (IC8).

When the S-meter signal is lower than the threshold level, the comparator turns "HIGH" and then Q32 turns OFF to deactivate the AF input mode selector switch. This signal is applied to Q34, turning OFF the [RX] indicator and is also applied to the [MIC] connector pin 4.

4-2 TRANSMITTER CIRCUITS

4-2-1 MIC AMPLIFIER (MAIN UNIT)

Audio signals from the [MIC] connector are applied to the [MIC] control and amplified at the mic amplifier (Q45). External modulation input from the [ACC(1)] socket pin 4 is also applied to Q45 via R255.

The AF signals from Q45 or CW keying signal is applied to the balanced modulator (IC6). Q44 cuts the signals from Q45 in CW or receiving.

4-2-2 BALANCED MODULATOR (MAIN UNIT)

Output signals from the mic amplifier or CW keying signal are applied to the balanced modulator circuit (IC6) to be converted to a 9 MHz IF signal using a BFO signal. The BFO signal, buffer-amplified at Q42, is applied to IC6 pin 7 as a carrier signal. IC6 outputs a double sideband signal and passes through a 9 MHz filter to create an SSB signal.

R177 and R179 adjust the balance level of IC6 for maximum carrier suppression. In CW mode, the CW keying signal upsets the balance to create a carrier signal.

4-2-3 IF CIRCUITS (MAIN UNIT)

The 9 MHz IF signal passes through one of the three 9 MHz filters where unwanted sideband or out-of-band signals are removed. The filters are selected with mode selecting signals and the "T8" voltage line. The optional CW narrow filter is not used in transmitting.

The resulting signal is amplified at Q22, and is then mixed with the 2nd LO signal to be converted to a 70.45 MHz IF signal at IC1. IC1 is used in receiving and transmitting. The FM signal from the optional AM \cdot FM UNIT is amplified at Q22 and is then applied to IC1.

The 70.45 MHz IF signal is amplified at the IF amplifier (Q7) and is then converted to the displayed frequency at the balanced mixer (Q2, Q3).

The gates of the IF amplifiers (Q7, Q22) are controlled by ALC bias voltage from the ALC circuit. R89, connected to the gate of Q22, improves the temperature characteristics of the transmitter gain. R85 adjusts the transmitter gain.

4-2-4 RF CIRCUITS (MAIN AND PA UNITS)

The converted signal from Q2 and Q3 is applied to the bandpass filter where the unwanted LO signal emission is reduced. The converted signal is amplified at Q1, and is then applied to the PA UNIT via J11.

Incoming signals from the MAIN UNIT are amplified at the predrive amplifier (Q1), drive amplifier (Q2, Q3) and power amplifier (Q5, Q6) to obtain stable 100 W RF output power. The predrive amplifier is a class A amplifier with a Vcc of 13.8 V. The drive and power amplifiers are class AB push-pull amplifiers with a Vcc of 13.8 V. A stable bias voltage is applied to these amplifiers. D1 controls a bias voltage to the drive amplifier. Q4, D2 and D3 supply a bias voltage to the power amplifier.

A 0.012 Ω resistor (R26), inserted in the 13.8 V Vcc line, is provided for the Ic APC circuit. A voltage generated at both terminals of R26 is applied to the MAIN UNIT via the "ICH" and "ICL" signal line.

Thermal switch S1 and thermistor R32 detect the temperature of Q6 and Q5 respectively, and control the cooling fan speed.

TEMPERATURE °C (°F)		Below 50 (122)	50~90 (122~194)	Above 90 (194)
THERMAL SWITCH (S1)		OFF	OFF	ON
RESISTANCE OF R32		HIGH	LOW	LOW
COOLING	RECEIVE	STOP	LOW	HIGH
FAN SPEED	TRANSMIT	LOW		HIGH

COOLING FAN CONTROL CIRCUIT



4-2-5 RF FILTER CIRCUIT (PA UNIT)

The PA UNIT has 6 Chebyshev low-pass filters. The signal from the power amplifier (Q5, Q6), applied to one of the low-pass filters depending on the transmit frequency range, suppresses high harmonic components.

The filter switching voltage, obtained at the PLL UNIT, is applied to the PA UNIT via P7.

FILTER	FREQUENCY RANGE (MHz)
L1	Below 2
L2	2~4
L3	4~8
L4	8~15
L5	15~22
L6	22~30

FREQUENCIES AND APPROPRIATE FILTERS

The filtered signal passes through the SWR detector circuit (L51) and is then applied to the antenna connector. The forward signal from L51 is detected at D7 and applied to the MAIN UNIT as the "FOR" voltage. The reflection signal from L51 is detected at D8 and applied to the MAIN UNIT as the "REF" voltage.

4-2-6 ALC CIRCUIT (MAIN UNIT)

The ALC (Auto Level Control) circuit stably controls the RF output power using the [RF POWER] control.

The "FOR" voltage from the PA UNIT is applied to IC11 pin 2 and IC10 pin 3. The "POC" voltage controlled by the [RF PWR] control is also applied to IC11 pin 3 as the reference voltage.

When the "FOR" voltage exceeds the "POC" voltage, ALC bias voltage from IC11 pin 1 controls the IF amplifiers to reduce the output power until the "FOR" and "POC" voltages are equalized.

In AM mode, IC11 operates as an averaging ALC amplifier, because a capacitor on the optional AM - FM UNIT (C51) is connected to the cathode of D76. Q54 turns ON and the "POC" voltage is shifted for 40 W AM output power (maximum).

The ALC bias voltage from IC11 pin 1 is also applied to the inversion-amplifier (IC11 pin 6) to control an intensity of the [TX] indicator, showing the ALC level.

An external ALC input from the [ALC] jack is applied to the buffer amplifier (Q53). ALC operation is identical to that of the internal ALC.

4-2-7 APC CIRCUITS (MAIN UNIT)

The APC circuits protect the final transistors from high SWR and excessive current. The "REF" voltage from the PA UNIT is applied to Q56. When the "REF" voltage exceeds the reference voltage, determined by R203 and R204, Q56 turns ON and the "POC" voltage is shifted for 12 W output power.

The "ICH" and "ICL" voltages are applied to the Ic APC amplifier (IC10, pins 5 and 6) and then to the ALC bias voltage line to prevent excessive current flow.

4-2-8 CW KEYING CIRCUIT (MAIN UNIT)

When the CW key is closed, the "KEY" signal line becomes "LOW." Q38 outputs 8 V to control break-in operation, sidetone signal and transmit signal.

When the [BK IN] switch is pushed IN, 8 V from Q38 charge C252 and Q26 is turned ON, turning ON Q52. Q52 grounds the SEND line for transmitting. The [DELAY] control (R244) adjusts the transmit release delay time.

The 8 V from Q38 charges C249 and D91 is turned OFF, disconnecting C249 from Q40. Q40 then oscillates a sidetone signal. R268 prevents sidetone click noise.

The 8 V from Q38 is applied to a time constant and then to the balanced modulator (IC6) to create a carrier signal. R241 in the time constant adjusts a transmit delay timing for 12 msec.



ALC CIRCUIT

While no CW transmit IF signal exists, Q39 and Q23 turn the switching diode (D35) OFF to ensure transmit isolation.

4-2-9 OUTPUT POWER METER CIRCUITS (MAIN UNIT)

The "FOR" voltage from the PA UNIT is applied to the Po meter amplifier (IC10 pin 3) and then to the meter. R189 and C261 are used for peak power measurement.

4-2-10 T/R SWITCHING CIRCUIT (MAIN UNIT)

When the PTT or [TRANSMIT] switch is set to transmit, IC13 pin 10 and IC13 pin 3 are "LOW." At this time, Q49 turns ON, and 0 V is present on the "R8" voltage line. Q50 turns OFF, and there is 8 V present on the "T8" voltage line.

When the PTT or [TRANSMIT] switch is set to receive, IC13 pin 10 and IC13 pin 3 are "HIGH." At this time, Q49 turns OFF, and 8 V is present on the "R8" voltage line. Q50 turns ON, and there_is 0 V present on the "T8" voltage line.

When PLL data or the operating mode is changed, the "DNB" signal line becomes "LOW," turning OFF the T8 – preventing unwanted transmission.

4-3 PLL CIRCUITS

4-3-1 GENERAL DESCRIPTION

The PLL UNIT generates a 1st LO signal (70.9515~ 100.4515 MHz variable) and 2nd LO signal (61.44 MHz fixed) used in the MAIN UNIT. The IC-725 uses a dual loop PLL system. A main loop PLL uses 4 VCO circuits for all HF band coverage within 512 kHz steps. A sub loop PLL uses a DDS (Direct Digital Synthesizer) system for 512 kHz coverage within 10 Hz steps. The DDS system provides a rapid lockup time and high quality frequency oscillation.

4-3-2 REFERENCE OSCILLATOR CIRCUIT (PLL UNIT)

A 30.72 MHz reference frequency is produced by the oscillator Q33 and X2. The reference frequency, bufferamplified at Q34, is divided by 2 at IC15 and is then applied to the PLL circuit as the PLL reference frequency.

The signal oscillated at Q33 is multiplied by 2 at Q36. The resulting 61.44 MHz signal is filtered at the bandpass filter and is then applied to the MAIN UNIT via P4 as the 2nd LO signal.

4-3-3 MAIN LOOP (PLL UNIT)

The main loop uses a PLL IC (IC13) which contains a programmable divider, phase detector, data shift register and data latch circuits. The main loop generates 70.9515~100.4515 MHz signals in 512 kHz steps.

Because the sub loop produces 10 Hz steps, the PLL produces a 30 MHz frequency range in 10 Hz steps.

The oscillated signal at one of the 4 VCOs (Q15, Q17, Q19, Q21; see Section 4-3-4 for details) is amplified at Q23. The signal is mixed with the sub loop output (f_{LO} : 62.05~62.56199 MHz) at IC16. Q23 is an isolator which ensures that the mixer input does not affect the VCO output.

The mixed signal is amplified at Q27 and is then filtered at the low-pass filter (L23 \sim L25, C92, C93, C99 \sim C103). The filtered signal, amplified at Q26, is divided by 4 at IC14 and is then applied to the PLL IC (IC13).

The phase of the divided signal at IC14, detected at the PLL IC (IC13) using a reference frequency (f_{REF}) of 512 kHz, is then output from pin 17. The 512 kHz frequency is obtained from the reference oscillator (Q33). 30.72 MHz oscillated at Q33, is divided by 2 at IC15 and divided by 30 at the programmable divider section of IC13.

The phase detected signal is then converted to the lock voltage at the loop filter (Q12 \sim Q14), and applied to the VCO. Thus, the VCO output (PLL output) is locked to produce stable oscillation.

The PLL oscillation frequency is obtained by the following calculation:

 $f_V = f_{LO} + N_T \times f_{REF}$

- fv : Main loop output
- f_{LO} : Sub loop output
- N_T : Dividing ratio from the CPU
- fREF: Reference frequency (512 kHz)

4-3-4 VCO CIRCUIT (PLL UNIT)

The transceiver's C/N ratio is determined by the VCO and the loop filter. 4 VCO circuits keep the low noise and reduce spurious emissions. Q16, Q18, Q20 and Q22 are VCO switches which select the operating VCO with "VCO1" \sim "VCO4" lines.

4-3-5 SUB LOOP (PLL UNIT)

The sub loop uses the DDS system that generates 62.05~62.56199 MHz signals in 10 Hz steps.

The oscillated signal at the VCO (Q29) is buffer-amplified at Q30 and mixed with the 2nd LO signal (61.44 MHz) at IC17. The resulting signal passes through the low-pass filter, is amplified at Q32, and is then applied to the DDS UNIT.

The output pulse-type signal from the DDS UNIT passes through the loop filter (R133, R134, C114, C115, L42) where it is converted into a DC signal (lock voltage). The lock voltage is applied to the VCO to lock the oscillating frequency.

PLL CIRCUIT BLOCK DIAGRAM



4-4 LOGIC CIRCUITS

4-4-1 BAND SELECTION DATA (PLL UNIT)

To select the correct bandpass filter, the low-pass filter and VCOs on the MAIN and PLL UNITS, the CPU outputs the following data.

R29~R40 and D29~D35 convert the "B0"~"B7" signals into a band voltage (0~7.5 V) for external equipment.

FREQUENCY (MHz)	BPF	BAND VOLTAGE	LPF	vco
0.5~1.599	BO	7.5 V	L1	
1.6~1.999	B1	7.5 V		VCO1
2.0~3.999	B2	5.9 V	L2	1001
4.0~7.999	B3	5.0 V	L3	
8.0~10.999	B4	0.0 V	14	VCO2
11.0~14.999	B5	4.1 V	L4	1002
15.0~21.999	B6	3.2 V	L5	VCO3
22.0~30.0	B 7	2.2 V	L6	VCO4

4-4-2 CPU (PLL UNIT)

The CPU (IC8) contains an 8-bit CMOS CPU, 16k-byte ROM and 256-byte RAM. The CPU controls operating frequency, mode and the function display, etc. The memory contents are stored in the CPU using a lithium backup battery for more than 5 years.

The Icom CI-V network system allows that the IC-725 can be remotely controlled by a personal computer using an RS-232C signal line.

4-4-3 RIT CIRCUIT (PLL UNIT)

IC12 is an A/D converter which outputs 8-bit serial data regarding analog input voltage. A voltage, controlled by the [RIT] control, is applied to IC12 pin 4 and the resulting serial data is applied to the CPU matrix $Y4 \rightarrow DB4$.

4-4-4 KEY MATRIX



Fig. 7

4-4-5 PARALLEL/SERIAL CONVERTER (PLL UNIT)

IC11 is a parallel/serial converter IC. Parallel data from the CPU are converted into serial data to transfer the PLL N-data, DDS N-data, data for LCD driver, etc.

When the power is turned ON, the CPU also outputs programmable divider data and a control signal for universal ports to the PLL IC (IC13).

4-5 REGULATOR CIRCUITS

Either 8, 5 or -5 V DC are supplied from corresponding regulator circuits. 8, 5 and -5 V DC are regulated at the following circuits using 13.8 V DC.

(1) 5 V REGULATOR (PLL UNIT)

5 V DC are regulated by the three-terminal voltage regulator (IC10).

(2) 8 V REGULATOR (MAIN UNIT)

8 V DC are regulated by the three-terminal voltage regulator (IC14).

(3) -5 V REGULATOR (PLL UNIT)

IC6 generates a negative pulse-type voltage by converting the DC input to AC voltages (approx. 6.7 kHz) as a multivibrator. The voltage is rectified at D8 and D9, regulated by a Zener diode (D10) and C13, and is then applied to the MAIN UNIT.

SECTION 5 MECHANICAL PARTS AND DISASSEMBLY

5-1 FRAME DISASSEMBLY





• FRAME DISASSEMBLY

LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.	LABEL Number	ORDER NO.	DESCRIPTION	QTY.
1	8110003270	Top cover	1	35	8930000720	Thread spacer (V)	4
2	8110003280	Bottom cover	1	36	8930013990	610 Brake plate	1
3	8930002900	Rubber foot (A)	2	37	8930014030	610 Brake pat	1
4	8930005790	Foot (A)	1	38	8930013940	610 Brake sheet	1
5	8930005800	Foot (B)	1	39	8810001110	PH B0 M3×6	1
6	8010001520	Stand (C)	1	40	8810005470	PH M2.6×14 ZK	1
1	8810005520	PH B1 M3×8 ZK	4	(41)	8810001650	PH FT M3×6	9
8	8810005540	PH B1 M4×10	2	42	8810001320	PH B1 M2.6×6 Ni	4
9	8010007851	610 Chassis-1	1	43	8510001330	79 shield case	1
10	8810001350	PH B1 M3×6	16	44)	8510001340	79 shield case cover	1
1	8810002160	FH M3×5	16	45	8510001060	Shield case	1
(12)	8810003670	ICOM screw A 6	2	46	8510001740	Shield case cover	1
(3)	8810005510	FH M3×6 ZK BS	16	(17)	8510000881	194 VCO case-1	1
14	8210004670	610 Front panel (B)	1	48	8510003460	194 VCO case cover (A)	1
(15)	8610004640	Button K119 [VFO]	1	49	8510000230	220 shield case	1
16	8610004650	Button K119 (A) [SPLIT]	1	50	8510002200	VCO case	1
1	8610004660	Button K119 (B) [UP]	1	§ 1	8510000881	194 VCO case-1	1
(18)	8610004670	Button K119 (C) [MEMO]	1	52	8510002690	PA shield case (B)	1
(19	8610004680	Button K119 (D) [MW]	1	53	8510004360	PA shield case (B) cover (A)	1
. 20	8610004690	Button K119 (E) [DOWN]	1	54	8510005310	DDS shield case	1
21)	8610004700	Button K119 (F) [FUNC]	1	55	8510005320	DDS shield case cover	1
22	8610004710	Button K119 (G) [RIT, TUNER]	2	56	2230000120	Switch [POWER] SDDSA3159A	1
23	8610004720	Button K120 [SSB, CW/N, AM/FM]	3	57	6510000190	Connector [MIC] FM214-8SS (P)	1
24	8610004730	Button K121 [kHz, MHz, BAND]	3	58	7600000100	Rotary encoder EC24B50B0013A	1
25	8610003850	Button K98 [TRANSMIT]	1	59	7210000570	Variable resistor [RIT]	1
26	8610004741	Button K122-1 [LOCK]	1		0450000010	Connector [PHONES]	
27	8610004751	Button K123-1 [NB, ATT, PRE, AGC]	4	60	6450000810	HLJ4306-01-3070	1
28	8610004760	Dial N104 (A) (incl. rubber ring and screw)	1	6	7210001320	Variable resistor [AF/SQL] RK124221002DA	1
29	8610004770	Knob N45C [AF, MIC]	2		7040004550	Variable resistor [MIC/RF PWR]	
30	8610000500	Knob N69 [SQL, RF PWR]	2	62	7210001550	RK1242210032A	1
31	8610001560	Button K42 [POWER]	1	@	7010001500	Variable resistor [RIT]	
32	8610004780	Knob N87 (B) [RIT]	1	63	7210001530	RK09K1110AEGA	1
33	8010007860	610 Sub chassis	1	64	0910006330	Flexible cable P.C. Board B 792	1
34)	8930003200	Spacer (P)	1			· · · · · · · · · · · · · · · · · · ·	

Screw abbreviations

BS: Brass

.

PH: Pan head FH: Flat head B0, B1, FT: Self-tapping screw ZK: Black

Ni: Nickel

5-2 PA UNIT AND ACCESSORIES



5 — 3

• PA UNIT

LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8410000781	401 Heatsink-1	1
2	8510005462	PA cover-2	1
3	8810001910	PH M3×6 Ni BS	2
4	8850000420	Spring washer M3 Ni	2
(5)	8810001350	PH B1 M3×6	24
6	8810003170	Set screw A M3×8	7
$\widehat{\boldsymbol{l}}$	6910000310	Bushing B312D	1
8	8810003670	ICOM screw A6	2
9	8810003210	Set screw A M3 × 15	1
10	8810000220	PH M3×5	4
0	8810001980	PH M5×16 Ni BS	1
(2)	8850000590	Star washer M5	1
(13)	8850000440	Spring washer M5 Ni	1
	8830000210	Nut M5 Ni BS	1
(15)	8850000150	Flat washer M5 Ni BS	2
16	8830000360	Wing nut M5 Ni	1
10	6510004880	ANT connector MR-DS-E 01	1
18	2510000040	Speaker C065K12I0810	1
()	6510003780	DC power socket LLR-6	1

Screw abbreviations

PH: Pan head B1: Self-tapping screw Ni: Nickel

BS: Brass

• ACCESSORIES

LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	Optional product	DC power cable OPC-025 A	1
2	Optional product	Hand microphone HM-12	1
3	5210000080	Spare fuse FGB 20A	1
٩	5210000130	Spare fuse FGB 4A	1
5	8810005500	FH B1 M4 × 12 CR	2
6	8810001600	PH ST M3×6	4

Screw abbreviations

FH: Flat head PH: Pan head B1, ST: Self-tapping screw



5-3 FRONT AND PLL UNITS CONNECTOR ASSEMBLY



5 — 5

5-4 FRONT AND MAIN UNITS CONNECTOR ASSEMBLY



5 — 6

5-5 PA AND FILTER UNITS CONNECTOR ASSEMBLY



SECTION 6 ADJUSTMENT PROCEDURES

6-1 PREPARATION BEFORE SERVICING

REQUIRED TEST EQUIPMENT

EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
AC power supply	Output voltage : 13.8 V DC	DC voltmeter	Input impedance : 50 kΩ/DC or better
	Current capacity : 30 A or more	AC milli-voltmeter	Measuring range : 10 mV~10 V
RF power meter (terminated type)	Measuring range : 10~200 W Frequency range : 1.8~30 MHz	External speaker	Impedance : 8 Ω
	Impedance $: 50 \Omega$	Ammeter	Measurement capability: 1 A and 30 A
	SWR : Less than 1.2 : 1	Audio generator	Frequency range : 300~3000 Hz
Frequency counter	Frequency range : 0.1~100 MHz		Output level : 1~500 mV
	Frequency accuracy : ±1 ppm or better Sensitivity : 100 mV or better	Attenuator	Power attenuation : 40 or 50 dB Capacity : 150 W or more
RF voltmeter	Frequency range : 0.1~100 MHz Measuring range : 0.01~10 V	Spectrum analyzer	Frequency minimum : At least 90 MHz Spectrum bandwidth : ±100 kHz or more
Oscilloscope	Frequency range : DC~20 MHz Measuring range : 0.01~10 V		
Standard signal generator (SSG)	Frequency range : 0.1~30 MHz Output level : -127~-17 dBm (0.1 μV~32 mV)		

CONNECTION



6-2 PLL ADJUSTMENT

ADJUSTMENT		ADJUSTMENT CONDITIONS	M	IEASUREMENT	VALUE	ADJUSTMENT POINT		
ADJUSIME		ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST	
REFERENCE FREQUENCY	1	Displayed frequency: 14.10000 MHz Mode : USB Receiving	PLL •	Terminate P4 to ground with a 50 Ω resistor. Connect the RF voltmeter to P4.	Pre-set to center. Maximum level (More than +3 dBm)	PLL	C134 L38, L39	
	3			Connect the frequency counter to P4.	61.4400 MHz		L35	
	4	After adjustment, remove the resistor t	irom P4 a	I nd re-plug P4.	I	-		
DDS CLOCK	1	Displayed frequency: 14.10000 MHz Mode : USB Receiving	DDS	Connect the frequency counter to IC4 pin 11 or IC5 pin 11.	5.24288 MHz	DDS	C1	
DDS LOOP	1	Displayed frequency: 14.12650 MHz Mode : AM Receiving	PLL	Connect the oscilloscope to R133 (rear panel side).	1.0 V DC	PLL	L30	
	2	Displayed frequency: 14.12649 MHz			Approx. 2.0 V DC		Verify	
1ST LO LOCK VOLTAGE	1	Displayed frequency: 7.99999 MHz Mode : USB Receiving	PLL	Connect the oscilloscope to R77. (shielding case side)	6.5 V DC	PLL	C35	
	2	Displayed frequency: 14.99999 MHz			6.5 V DC		C46	
	3	Displayed frequency: 21.99999 MHz			6.5 V DC		C59	
	4	Displayed frequency: 33.00000 MHz			7.5 V DC		C70	
	5	 Displayed frequencies: 0.50000 MHz, 8.00000 MHz, 15.00000 MHz and 22.00000 MHz 			More than 2.0 V DC		Verify	
1ST LO OUTPUT LEVEL	1	Displayed frequency: 14.10000 MHz Mode : USB Receiving	PLL	Terminate P5 to ground with a 50 Ω resistor. Connect the RF voltmeter to P5.	More than 0 dBm		Verify	
	2	After adjustment, remove the resistor f	irom P5 a	nd re-plug P5.	<u>I</u>			
RIT	1	Displayed frequency: 14.10000 MHz Mode : USB Set the signal generator;	Top cover	Speaker	Pre-set to center.	Front panel	[RIT] control	
	2	Level : 50 µV (-73 dBm) Modulation : OFF • [RIT] switch : ON and OFF • Receiving	-		Same tone pitch on both conditions.	PLL	R70	





6-3 RECEIVER ADJUSTMENT

ADJUSTME	NT	ADJUSTMENT CONDITIONS	N	IEASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSIME		AUJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
BFO FREQUENCY	1	Displayed frequency: 14.10000 MHz Mode USB Receiving	MAIN	Connect the frequency counter to R266.	9.01300 MHz	MAIN	C294
	2	Mode : CW Transmitting			9.01060 MHz		L83
	3	Mode : LSB Receiving	-		9.01000 MHz		L82
	4	• Mode : CW			9.00980 MHz (±150 Hz)		Verify
	5	• Mode : AM	,		No output		
SENSITIVITY	1	Displayed frequency: 14.10000 MHz Mode : USB [RIT] switch : OFF	Rear panel	Connect the AC milli- voltmeter to the	Pre-set to max. CW.	MAIN	R138
		 [RIT] switch : OFF [AGC] switch : IN (Fast) [ATT] switch : OFF [NB] switch : OFF [PRE] switch : ON [SQL] control : Max. CCW Set the signal generator; Level : 0.16 μV (-123 dBm) Modulation: OFF Receiving 		[EXT SP] jack with an 8 Ω load.	Maximum audio output level		L33, L34, L35, L36, L16, L17, L21, L22, L23, L79, L78, L77
TOTAL GAIN	1	 Displayed frequency: 14.10000 MHz Mode : USB [PRE] switch : OFF Set the signal generator; Level : 1.0 mV (-47 dBm) Modulation: OFF Receiving 	Rear panel	Connect the AC millivoltmeter to the [EXT SP] jack with an 8 Ω load.	1.0 V (0 dB)	Front panel	[AF] control
	2	Set the signal generator; Level : OFF			30 mV (-30 dB)	MAIN	R138
S-METER	1	 Displayed frequency: 14.10000 MHz Mode : USB [PRE] switch : OFF Set the signal generator; Level : 50 μV (-73 dBm) Modulation: OFF Receiving 	Front panel	Meter	S9	MAIN	R116
	2	• Set the signal generator; Level : 50 mV (-13 dBm)			S9+60 dB		R110
	3	Repeat above adjustments 1 and 2 a c	ouple of t	l limes.			

RECEIVER ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
		ADJUSTMENT CONDITIONS	UNIT LOCATION			UNIT	ADJUST
NOISE BLANKER	1	 Displayed frequency: 14.10000 MHz Mode : USB [NB] switch : ON Apply an RF signal including the following pulse noise to the antenna connector. RF signal level : 3.2 μV (-97 dBm) Receiving 100 msec. 4 msec. 	MAIN	Connect the oscilloscope to the cathode of D13.	Adjust for maximum waveform on the oscilloscope.	MAIN	L25, L26

MAIN UNIT



6-4 TRANSMITTER ADJUSTMENT

			N	IEASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSTME		ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
IDLING CURRENT (a) For drive transistors	1	Displayed frequency: 14.10000 MHz Mode : CW [TRANSMIT] switch: IN [KEY] jack : No connection	PA	Unsolder W14 and connect the ammeter to the unsoldering points.	50 mA	ΡΑ	R8
For final transistors	2		ΡΑ	Unsolder R26 and connect the ammeter to the unsoldering points. ammeter 000 R26 00 R26 00 J11 Unsolder PA UNIT	300 mA	ΡΑ	R19
		After adjustment, re-solder W14 and R	26.	1	L		

PA AND FILTER UNITS



TRANSMITTER ADJUSTMENT (CONTINUED)

	NT	ADJUSTMENT CONDITIONS	N	IEASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSTME	: N 1	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
SWR DETECTOR	1	Displayed frequency: 14.10000 MHz Mode : USB [RF PWR] control : Max. CW	Rear panel	Connect the RF power meter to the antenna connector.	100 W	Front panel	[MIC] control
	2	 Connect a jumper wire between R87 front side and ground. Apply an RF signal to the [MIC] connector. Level 10 mV/1.5 kHz Transmitting 	MAIN	Connect the DC voltmeter to J6 pin 2.	Minimum	FILTER	C96 (See p. 6-6)
	3	After adjustment, remove the jumper v	vire from	R87.			
TRANSMIT GAIN	1	Displayed frequency: 14.10000 MHz Mode : USB	Rear panel	Connect the RF power meter to the	Pre-set to max. CCW.	MAIN	R85
		• [RF PWR] control : Max. CW • Apply an AF signal to the [MIC] connector.		antenna connector.	50 W	Front panel	[MIC] control
		Level : 1 mV/1.5 kHz • Transmitting	Ma	Maximum level	MAIN	L37, L17, L16, L14, L7	
	2	• [MIC] control : Max. CW			50 W		R85
		NOTE: Adjust the [MIC] control to keep	the outp	but power at 50 W for ea	ach adjustment.	-	
OUTPUT POWER	• M	Displayed frequency: 1.91000 MHz Mode : CW	panel power meter to antenna conne	Connect the RF power meter to the	Pre-set to max. CCW.	MAIN	R194, R241
	2	 [RF PWR] control : Max. CW Connect a key to the [KEY] jack and keep the key down. 		antenna connector.	100 W		R210
	3	• [RF PWR] control : Max. CCW			10 W		R208
	4	Repeat steps 2 and 3 a couple of time	s.		4		
IC APC	1	 Displayed frequency: 14.10000 MHz Mode : CW [RF PWR] control : Max. CW Connect a jumper wire between J6 pin 3 and ground. Connect a key to the [KEY] jack and keep the key down. 	Rear panel	Connect the ammeter between the AC power supply and IC-725.	22 A	MAIN	R194
	2	After adjustment, remove the jumper w	vire from	J6 pin 3.	<u>I</u>		
Po METER	1	Displayed frequency: 14.10000 MHz Mode : CW [RF PWR] control : Max. CW Connect a key to the [KEY] jack and keep the key down.	Front panel	Meter	100 % (full scale)	MAIN	R186
CW DELAY TIME	1	Displayed frequency: 14.10000 MHz Mode : CW [BK IN] switch : ON [DELAY] control : Max. CCW Connect an external electronic keyer to the [KEY] jack and close the key.	MAIN	Connect the oscilloscope to J11 and the electronic keyer.	Adjust as follows: Keying J11 12 msec.	MAIN	R241

TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTME		ADJUSTMENT CONDITIONS	N	IEASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSIME	.re i	ADJUSTMENT CONDITIONS	UNIT LOCATION	VALUE	UNIT	ADJUST	
CARRIER SUPPRESSION	1	Displayed frequency: 1.91000 MHz Mode : USB and LSB [MIC] control : Max. CCW Apply no signal to the [MIC] connector. Transmitting	Rear panel	Connect the spectrum analyzer to the antenna connector via the attenuator.	Minimum carrier level (Less than - 50 dB)	MAIN	R177, R179 (Altemately adjust)

MAIN UNIT



SECTION 7 BOARD LAYOUTS

7-1 FRONT UNIT





. .



2SC2458 GR Q2, Q3, Q4, Q6



RN1204 Q5





to PLL UNIT (J1)





7-2 MAIN UNIT






2SA1048 GR Q37



2SC1571G Q12



2SC2458 GR/Y Q1, Q10, Q11, Q13, Q14, Q16, Q18, Q2, Q20, Q22, Q3, Q33, Q4, Q5, Q6, Q7, Q8, Q9, Q32



2SC2668 O Q23, Q24, Q26, Q27, Q30, Q34, Q36



2SK192A GR Q15, Q17, Q19, Q21, Q29



RN1202 Q25, Q35



RN2202 Q31





7-4 PA UNIT

• FILTER UNIT





2SB562 C Q7

A NIT

to PLL UNIT J7



2SD1406 Y Q4





RN1202

Q8, Q9

2SC1971

Q1







2SC3133

Q2, Q3

RN2202 Q10





7-5 DDS UNIT

COMPONENT SIDE



FOIL SIDE

FOIL SIDE



FOIL SIDE COMPONENT SIDE

7-6 AM · FM UNIT (OPTIONAL)





7 — 5

SECTION 8 PARTS LIST

[FRONT UNIT]

ORDER REF. DESCRIPTION NO. NO. IC1 1130000790 IC . µPD7225G 1520000230 2SB909M Q 01 Transistor Q2 1530000110 Transistor 2SC2458-GR Q3 1530000110 Transistor 2SC2458-GR Q4 1530000110 Transistor 2SC2458-GR **Q**5 Transistor 1590000350 **RN1204** 2SC2458-GR **Q6** 1530000110 Transistor RD8.2E B2 D1 1730000180 Zener **1SS133** 1710000160 Diode D2 D3 1710000160 Diode 155133 1710000160 Diode 155133 D4 D5 1710000160 Diode 1SS133 1710000160 Diode **1SS133** D6 Diode 155133 **D7** 1710000160 D8 1710000160 Diode 155133 1710000160 Diode 1SS133 D9 D10 1710000160 Diode 1SS133 1710000160 Diode **1SS133** D11 D12 1710000160 Diode 1SS133 D13 1710000160 Diode 1SS133 D14 1710000160 Diode **1SS133** D15 1710000160 Diode **1SS133** D16 1710000160 Diode **1SS133** Diode D17 1710000160 188133 D18 1710000160 Diode 1SS133 1710000160 Diode 1SS133 D19 LAL 03NA 101K 6180000900 E1 Coil L2 6180000900 Coil LAL 03NA 101K L3 6180000900 LAL 03NA 101K Coil L4 6180000900 LAL 03NA 101K Coil 15 6180000900 LAL 03NA 101K Coil L6 6180000900 Coil LAL 03NA 101K LAL 03NA 101K LAL 03NA 101K L7 6180000900 Coil 6180000900 1.8 Coil R1 7210001320 Variable Resistor RK124221002DA (AF/SQL) R2 7210001550 Variable Resistor RK1242210032A 10KB-10KB (MIC/RF PWR) 7010004030 R20J 47 Ω **R**3 Resistor R20J 1 kΩ R4 7010004190 Resistor R5 7010003280 Resistor ELR20J 100 Ω 7010003280 Resistor ELR20J 100 Ω **R**6 7010004720 Resistor R50XJ 100 Ω **B7** R8 7010004720 Resistor R50XJ 100 O **R**9 7010003400 Resistor ELR20J 1 kQ 7010003520 R10 Resistor ELR20J 8.2 kΩ R11 7010003480 Resistor ELR20J 4.7 kΩ ELB20J 1 kO 7010003400 Resistor **R12** R13 7010004250 Resistor R20J 3.3 kΩ R14 7010004320 Resistor R20J 10 kΩ R20J 10 kΩ R15 7010004320 Resistor 7010004480 Resistor R20J 180 kΩ R16 7010004410 **R17** Resistor R20J 47 kΩ R18 7010004320 Resistor R20J 10 kΩ R19 7010004320 Resistor R20J 10 kΩ R20 7010004170 Resistor R20J 680 Ω **B21** 7010004320 Resistor R20.1 10 kO R22 7010004320 Resistor R20J 10 kΩ R23 7210000570 Variable Resistor RK1631110D5FA (RIT) R24 7010004320 Resistor R20J 10 kΩ R25J 100 kΩ R25 7010001400 Resistor 7010004450 R20J 100 kO R26 Resistor

[FRONT UNIT]

C1 451000970 Electrolytic 10 MS9 100 μF C2 4510001150 Electrolytic 50 MS7 R47 μF C3 4010000520 Ceramic DD108 B 472K 50V C4 4010000520 Ceramic DD108 B 472K 50V C5 404000260 Barrier Layer UZE 08X 104M C6 4010000520 Ceramic DD108 B 472K 50V C7 4010000520 Ceramic DD108 B 472K 50V C8 4020000250 Cylinder UP125 X 472M C9 4020000250 Cylinder UP125 X 472M C10 4010000520 Ceramic DD108 B 472K 50V DS1 5030000380 LED SLP253B DS2 5040001700 LED HRS7219A-Y2-30 DS5 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 S2 Switch SPPH23079A [ReF] S2 220000550 Switch SPPH23079A [ReC] S4 2230000550 Switch	REF. NO.	ORDER NO.		DESCRIPTION
C2 4510001150 Electrolytic 50 MS7 R47 µF C3 401000520 Ceramic DD108 B 472K 50V C4 401000520 Ceramic DD108 B 472K 50V C5 404000520 Ceramic DD108 B 472K 50V C7 401000520 Ceramic DD108 B 472K 50V C3 402000250 Cylinder UP125 X 472M C9 402000250 Cylinder UP125 X 472M C10 401000520 Ceramic DD108 B 472K 50V C3 402000250 Cylinder UP125 X 472M C10 401000520 Ceramic DD108 B 472K 50V DS1 5030000380 LCD HLC9599-01-3210 DS2 504000120 LED SLP153B DS4 508000170 LED HRS7219A-Y2-30 DS5 508000170 LED HRS7219A-Y2-30 S2 230000550 Switch SPPH2307A [ATT] S3 2230000550 Switch SPPH2307A [NB] S4 2230000550 Switch </td <td>C1</td> <td>4510000970</td> <td>Electrolytic</td> <td>10 MS9 100 µF</td>	C1	4510000970	Electrolytic	10 MS9 100 µF
C3 4010000520 Ceramic DD108 B 472K 50V C4 4010000520 Ceramic DD108 B 472K 50V C5 404000250 Ceramic DD108 B 472K 50V C6 4010000520 Ceramic DD108 B 472K 50V C7 4010000520 Cylinder UP125 X 472M C9 402000250 Cylinder UP125 X 472M C10 4010000520 Ceramic DD108 B 472K 50V C3 402000250 Cylinder UP125 X 472M C9 402000250 Cylinder UP125 X 472M DS1 5030000380 LCD HLC9599-01-3210 LED SUP253B DS3 50400170 LED HRS7219A-Y2-30 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 KS1 S2 2230000550 Switch SPPH2307A [NB] KS1 S230000550 Switch	1	4510001150	Electrolytic	50 MS7 R47 µF
C4 4010000520 Ceramic DD108 B 472K 50V C5 4040000260 Barrier Layer UZE 08X 104M C6 4010000520 Ceramic DD108 B 472K 50V C7 4010000520 Ceramic DD108 B 472K 50V C8 4020000250 Cylinder UP125 X 472M C9 4020000250 Cylinder UP125 X 472M C10 401000520 Ceramic DD108 B 472K 50V DS1 5030000380 LCD HLC9599-01-3210 ED S05 DS2 5040001290 LED SLP153B S05 S08000170 LED HRS7219A-Y2-30 DS3 508000170 LED HRS7219A-Y2-30 S05 Switch SDPH23079A [ATT] S2 2230000550 Switch SDPH23079A [PRE] S4 2230000550 Switch SPPH23079A [ACC] S4 2230000550 Switch SPPH23079A [ACC] S5 S26000070 <	C3	4010000520		DD108 B 472K 50V
C6 4010000520 Ceramic DD108 B 472K 50V C7 4010000520 Ceramic DD108 B 472K 50V C8 402000250 Cylinder UP125 X 472M C9 402000250 Ceramic DD108 B 472K 50V C10 401000520 Ceramic DD108 B 472K 50V DS1 5030000380 LCD HLC9599-01-3210 DS2 504000120 LED SLP153B DS3 504000170 LED HRS7219A-Y2-30 DS5 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 S1 223000050 Switch SDDSA3159A S2 220000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [COCK] S7 2230000550 Switch SPPH23079A [COCK] S8 226000070 Switch SPPH23079A [COCK] S7		4010000520	Ceramic	DD108 B 472K 50V
C7 4010000520 Ceramic DD108 B 472K 50V C8 4020000250 Cylinder UP125 X 472M C9 4020000250 Cylinder UP125 X 472M C10 401000520 Ceramic DD108 B 472K 50V DS1 5030000380 LCD HLC9599-01-3210 DS3 5040001290 LED SLP153B DS3 504000170 LED HRS7219A-Y2-30 DS5 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 S1 223000050 Switch SDDSA3159A [POWER] S2 S2 230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [NB] S4 2230000550 Switch SPPH23079A [ICCK] SF 2230000550 Switch SPPH23079A [ICCK] SF 2230000550 Switch SPPH23079A [ICCK] SF 2230000550 Swit	C5	4040000260	Barrier Layer	UZE 08X 104M
C8 402000250 Cylinder UP125 X 472M C9 402000250 Cylinder UP125 X 472M C10 4010000520 Ceramic DD108 B 472K 50V DS1 5030000380 LCD HLC9599-01-3210 DS2 5040001290 LED SLP153B DS3 504000170 LED HRS7219A-Y2-30 DS5 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 S3 504000120 Switch SDDSA3159A [POWER] S2 223000550 Switch SPPH23079A [ATT] S3 223000550 Switch SPPH23079A [NB] S4 223000550 Switch SPPH23079A [CCK] S7 2230000550 Switch	C6	4010000520	Ceramic	DD108 B 472K 50V
C9 C10 402000250 4010000520 Cylinder Ceramic UP125 X 472M DD108 B 472K 50V DS1 5030000380 DS2 LCD HLC9599-01-3210 SLP253B DS3 5040001300 LED SLP253B DS4 508000170 LED HRS7219A-Y2-30 DS5 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 223000550 Switch SDDSA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [AGC] S4 2230000550 Switch SPPH23079A [AGC] S7 2230000550 Switch SPPH23079A [AGC] S8 226000070 Switch SPH23079A [AGC] S7 230000550 Switch SPH23079A [AGC] S8 226000070 Switch SHHAK013A [M-CH UP] S9	C7	4010000520	Ceramic	DD108 B 472K 50V
C9 C10 402000250 4010000520 Cylinder Ceramic UP125 X 472M DD108 B 472K 50V DS1 5030000380 DS2 LCD HLC9599-01-3210 SLP253B DS3 5040001300 LED SLP253B DS4 508000170 LED HRS7219A-Y2-30 DS5 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 223000550 Switch SDDSA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [AGC] S4 2230000550 Switch SPPH23079A [AGC] S7 2230000550 Switch SPPH23079A [AGC] S8 226000070 Switch SPH23079A [AGC] S7 230000550 Switch SPH23079A [AGC] S8 226000070 Switch SHHAK013A [M-CH UP] S9	C8	4020000250	Cylinder	UP125 X 472M
DS1 503000380 5040001290 LCD HLC9599-01-3210 SLP153B DS3 5040001290 LED SLP153B DS3 504000170 LED HRS7219A-Y2-30 DS5 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 DS7 508000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000550 Switch SDDSA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [MB] S5 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [TRANSMIT] S8 226000070 Switch SPH23079A [TRANSMIT] S8 226000070 Switch SPH23079A [TRANSMIT] S8 226000070 Switch SHAK013A [M-CH UP] S9 226000070 Switch SKHAK013A [TUNC] S11 22600	C9	4020000250	Cylinder	
DS2 5040001290 LED SLP153B DS4 506000170 LED HRS7219A-Y2-30 DS5 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000550 Switch SDPH23079A [ATT] S3 2230000550 Switch SPPH23079A [NB] S4 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [CCK] S7 2230000550 Switch SPPH23079A [CCK] S7 2230000570 Switch SPPH23079A [CCK] S8 226000070 Switch SKHHAK013A [M-CH UP] S9 226000070 Switch SKHHAK013A [FUNC] S11 226000070 Swit	C10	4010000520	Ceramic	DD108 B 472K 50V
DS2 5040001290 LED SLP153B DS4 506000170 LED HRS7219A-Y2-30 DS5 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000550 Switch SDPH23079A [ATT] S3 2230000550 Switch SPPH23079A [NB] S4 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [CCK] S7 2230000550 Switch SPPH23079A [CCK] S7 2230000570 Switch SPPH23079A [CCK] S8 226000070 Switch SKHHAK013A [M-CH UP] S9 226000070 Switch SKHHAK013A [FUNC] S11 226000070 Swit			1	
DS3 5040001300 LED SLP253B DS4 5080000170 LED HRS7219A-Y2-30 DS5 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000550 Switch SDPH23079A [ATT] S3 2230000550 Switch SPPH23079A [NB] S4 2230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [NB] S6 2230000550 Switch SPPH23079A [CCK] S7 2230000550 Switch SPPH23079A [CCK] S8 226000070 Switch SPPH23079A [CCK] S7 223000050 Switch SPH123079A [MCH] S8 226000070 Switch SKHHAK013A [M-CH UP] S9 226000070 Switch SKHHAK013A [MW] S11 226000070 Switc	DS1	503000380	LCD	HLC9599-01-3210
DS4 5060000170 LED HRS7219A-Y2-30 DS5 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000550 Switch SDPA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [RE] S4 2230000550 Switch SPPH23079A [RG] S6 2230000550 Switch SPPH23079A [RG] S6 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [CCK] S7 2230000550 Switch SPPH23079A [CCK] S7 223000070 Switch SHHAK013A [M-CH UP] S9 226000070 Switch SKHHAK013A [MV] S11 226000070 Switch SKHHAK013A [FUNC] S13 226000070 Switch SKHHAK013A [FUNC] S14 2260000070 <td>DS2</td> <td>5040001290</td> <td>LED</td> <td>SLP153B</td>	DS2	5040001290	LED	SLP153B
DS4 5080000170 LED HRS7219A-Y2-30 DS5 5080000170 LED HRS7219A-Y2-30 DS7 5080000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 223000050 Switch SDDSA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [ATT] S4 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [AGC] S7 2230000550 Switch SPPH23079A [CCK] S7 2230000550 Switch SPPH23079A [CCK] S7 223000070 Switch SPPH23079A [CCK] S8 226000070 Switch SPH23079A [ACC] S9 226000070 Switch SKHHAK013A [MCH] S11 226000070 Switch SKHHAK013A [FUNC] S12 226000070	DS3	5040001300	LED	SLP253B
DS7 508000170 LED HRS7219A-Y2-30 ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [CCK] S7 2230000550 Switch SPPH23079A [CCK] S7 223000070 Switch SPPH23079A [CCK] S7 223000070 Switch SPPH23079A [CCK] S8 226000070 Switch SPH23079A [CCK] S9 226000070 Switch SKHHAK013A [MCI] S11 226000070 Switch SKHHAK013A [FUNC] S12 226000070 Switch SKHHAK013A [SPL17] S13 226000070 Switch SKHHAK013A [FUNC] S14 2260000		5080000170	LED	HRS7219A-Y2-30
ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000120 Switch SDDSA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [LOCK] S7 223000070 Switch SPPH23079A [LOCK] S8 226000070 Switch SPH23079A [TRANSMIT] S8 226000070 Switch SKHHAK013A [M-CH UP] S9 226000070 Switch SKHHAK013A [FIT] S11 226000070 Switch SKHHAK013A [FUNC] S12 226000070 Switch SKHHAK013A [FUNC] S13 2260000070 Switch SKHHAK013A [FUNC] S14 <td>DS5</td> <td>5080000170</td> <td>LED</td> <td>HRS7219A-Y2-30</td>	DS5	5080000170	LED	HRS7219A-Y2-30
ME1 5510000300 Meter KL-218U-43 (M610) S1 2230000120 Switch SDDSA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [AGC] S5 2230000550 Switch SPPH23079A [LOCK] S7 2230000550 Switch SPPH23079A [LOCK] S7 2230000550 Switch SPPH23079A [LOCK] S7 2230000550 Switch SPPH23079A [COCK] S8 226000070 Switch SPPH23079A [COCK] S9 226000070 Switch SKHHAK013A [M-CH UP] S9 226000070 Switch SKHHAK013A [WV] S11 226000070 Switch SKHHAK013A [FUT] S12 226000070 Switch SKHHAK013A [FUNC] S13 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15				HRS7219A-Y2-30
S1 2230000120 Switch SDDSA3159A [POWER] S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [LOCK] S7 2230000550 Switch SPPH23079A [LOCK] S7 223000050 Switch SPPH23079A [COCK] S8 226000070 Switch SPPH23079A [COCK] S9 226000070 Switch SKHAK013A [M-CH UP] S9 226000070 Switch SKHAK013A [MV] S11 226000070 Switch SKHAK013A [MV] S12 226000070 Switch SKHAK013A [PUC] S13 226000070 Switch SKHAK013A [PUC] S14 226000070				
S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [ICCK] S7 2230000550 Switch SPPH23079A [ICCK] S8 2260000070 Switch SPPH23079A [ICCK] S9 2260000070 Switch SKHHAK013A [M-CH UP] S9 2260000070 Switch SKHHAK013A [MEMO] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [MW] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S16 2260000070 Switch SKHHAK013A [FUNC] S17 <td< td=""><td>ME1</td><td>5510000300</td><td>Meter</td><td>KL-218U-43 (M610)</td></td<>	ME1	5510000300	Meter	KL-218U-43 (M610)
S2 2230000550 Switch SPPH23079A [ATT] S3 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [ICCK] S7 2230000550 Switch SPPH23079A [ICCK] S8 2260000070 Switch SPPH23079A [ICCK] S9 2260000070 Switch SKHHAK013A [M-CH UP] S9 2260000070 Switch SKHHAK013A [MEMO] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [MW] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S16 2260000070 Switch SKHHAK013A [FUNC] S17 <td< td=""><td></td><td> </td><td></td><td></td></td<>				
S3 2230000550 Switch SPPH23079A [PRE] S4 2230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [ICCK] S7 2230000500 Switch SPPH23079A [ITCCK] S8 2260000070 Switch SPPH23079A [ITRANSMIT] S8 2260000070 Switch SKHHAK013A [M-CH UP] S9 2260000070 Switch SKHHAK013A [M-CH UP] S10 2260000070 Switch SKHHAK013A [MEMO] S11 2260000070 Switch SKHHAK013A [MIT] S13 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S17 2260000070 Switch SKHHAK013A [FUNC] S18				• • •
S4 2230000550 Switch SPPH23079A [NB] S5 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [LOCK] S7 2230000550 Switch SPPH23079A [TRANSMIT] S8 2260000070 Switch SPPH23079A [TRANSMIT] S9 2260000070 Switch SKHHAK013A [M-CH UP] S9 2260000070 Switch SKHHAK013A [M-CH UP] S10 2260000070 Switch SKHHAK013A [MEMO] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [FUNC] S13 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S16 2260000070 Switch SKHHAK013A [FUNC] S17 2260000070 Switch SKHHAK013A [AM/FM] S20 2260000070 Switch SKHHAK013A [AM/FM] <t< td=""><td></td><td></td><td></td><td></td></t<>				
S5 2230000550 Switch SPPH23079A [AGC] S6 2230000550 Switch SPPH23079A [LOCK] S7 2230000550 Switch SPPH23079A [TRANSMIT] S8 2260000070 Switch SPPH23079A [TRANSMIT] S8 2260000070 Switch SKHHAK013A [M-CH UP] S9 2260000070 Switch SKHHAK013A [M-CH DOWN] S10 2260000070 Switch SKHHAK013A [MEMO] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [FUNC] S13 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S17 2260000070 Switch SKHHAK013A [MHz] S19 2260000070 Switch SKHHAK013A [AMFM] <td< td=""><td></td><td>1</td><td></td><td></td></td<>		1		
S6 2230000550 Switch SPPH23079A [LOCK] S7 2230000550 Switch SPPH23079A [TRANSMIT] S8 226000070 Switch SKHHAK013A [M-CH UP] S9 226000070 Switch SKHHAK013A [M-CH UV] S10 226000070 Switch SKHHAK013A [M-CH DOWN] S11 226000070 Switch SKHHAK013A [MEMO] S12 226000070 Switch SKHHAK013A [MEMO] S12 226000070 Switch SKHHAK013A [MW] S14 226000070 Switch SKHHAK013A [FUNC] S15 226000070 Switch SKHHAK013A [FUNC] S16 226000070 Switch SKHHAK013A [FUNC] S17 2260000070 Switch SKHHAK013A [MHz] S18 2260000070 Switch SKHHAK013A [AM/FM] S21 2260000070 Switch SKHHAK013A [AM/FM] S22 <td>-</td> <td></td> <td></td> <td> ,</td>	-			,
S7 2230000550 Switch SPPH23079A [TRANSMIT] S8 2260000070 Switch SKHHAK013A [M-CH UP] S9 2260000070 Switch SKHHAK013A [M-CH UP] S10 2260000070 Switch SKHHAK013A [M-CH UP] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [MEMO] S13 2260000070 Switch SKHHAK013A [MW] S14 2260000070 Switch SKHHAK013A [FUNC] S13 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S16 2260000070 Switch SKHHAK013A [FUNC] S17 2260000060 Switch SKHHAK013A [FUNER] S19 2260000070 Switch SKHHAK013A [MHz] S20 2260000070 Switch SKHHAK013A [CW/N] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N]				
S8 2260000070 Switch SKHHAK013A [M-CH UP] S9 2260000070 Switch SKHHAK013A [M-CH UP] S10 2260000070 Switch SKHHAK013A [M-CH UP] S11 2260000070 Switch SKHHAK013A [VFO] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [RIT] S13 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S16 2260000070 Switch SKHHAK013A [TUNER] S17 2260000070 Switch SKHHAK013A [MHZ] S18 2260000070 Switch SKHHAK013A [MHZ] S19 2260000070 Switch SKHHAK013A [MHZ] S20 2260000070 Switch SKHHAK013A [CWN] S21 2260000070 Switch SKHHAK013A [CWN] S22 2260000070 Switch SKHHAK013A [SSB]		2230000550	Switch	
S9 2260000070 Switch SKHHAK013A [M-CH DOWN] S10 2260000070 Switch SKHHAK013A [VFO] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [MEMO] S13 2260000070 Switch SKHHAK013A [MEMO] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S16 2260000070 Switch SKHHAK013A [FUNC] S17 2260000060 Switch SKHHAK013A [FUNC] S18 2260000070 Switch SKHHAK013A [FUNC] S20 2260000070 Switch SKHHAK013A [AM/FM] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [SPEI] S23 760000100 Switch SKHHAK013A [SW]	S7	2230000550	Switch	
S10 226000070 Switch SKHHAK013A [VFO] S11 226000070 Switch SKHHAK013A [MEMO] S12 226000070 Switch SKHHAK013A [MEMO] S12 226000070 Switch SKHHAK013A [MIT] S13 226000070 Switch SKHHAK013A [FUIT] S14 226000070 Switch SKHHAK013A [FUIC] S15 226000070 Switch SKHHAK013A [FUIC] S16 226000070 Switch SKHHAK013A [FUIC] S17 2260000070 Switch SKHHAK013A [FUNC] S18 2260000060 Switch SKHHAK013A [MIZ] S19 2260000070 Switch SKHHAK013A [CWN] S21 2260000070 Switch SKHHAK013A [CWN] S22 2260000070 Switch SKHHAK013A [SWN] S21 2260000070 Switch SKHHAK013A [SWN] S22 2	S8		Switch	
S10 2260000070 Switch SKHHAK013A [VFO] S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [RIT] S13 2260000070 Switch SKHHAK013A [FUNC] S14 2260000070 Switch SKHHAK013A [FUNC] S15 2260000070 Switch SKHHAK013A [FUNC] S16 2260000070 Switch SKHHAK013A [FUNC] S17 2260000060 Switch SKHHAJ025A [BAND] S18 2260000060 Switch SKHHAJ025A [MHz] S19 2260000070 Switch SKHHAJ025A [MHz] S20 2260000070 Switch SKHHAK013A [CW/N] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S22	S9	2260000070	Switch .	
S11 2260000070 Switch SKHHAK013A [MEMO] S12 2260000070 Switch SKHHAK013A [RIT] S13 2260000070 Switch SKHHAK013A [RIT] S14 226000070 Switch SKHHAK013A [FUNC] S15 226000070 Switch SKHHAK013A [FUNC] S15 226000070 Switch SKHHAK013A [FUNC] S16 226000070 Switch SKHHAK013A [TUNER] S17 226000060 Switch SKHHAJ025A [BAND] S18 226000060 Switch SKHHAJ025A [MHz] S19 226000070 Switch SKHHAJ025A [KHz] S20 226000070 Switch SKHHAK013A [CW/N] S21 226000070 Switch SKHHAK013A [CW/N] S22 226000070 Switch SKHHAK013A [CW/N] S22 226000070 Switch SKHHAK013A [CW/N] S23 760000100 Switch SKHHAK013A [SSB] S23 760000100 Switch B 1786D (SW) EP1 0910019550 P.C. Board B 1787D (VR) EP3	C10	226000070	Switch	
S12 2260000070 Switch SKHHAK013A [RIT] S13 226000070 Switch SKHHAK013A [MW] S14 226000070 Switch SKHHAK013A [FUNC] S15 226000070 Switch SKHHAK013A [FUNC] S15 226000070 Switch SKHHAK013A [SPLIT] S16 226000070 Switch SKHHAK013A [SPLIT] S17 226000060 Switch SKHHAJ025A [BAND] S18 226000060 Switch SKHHAJ025A [KHz] S20 226000070 Switch SKHHAJ025A [KHz] S21 226000070 Switch SKHHAK013A [CW/N] S21 226000070 Switch SKHHAK013A [CW/N] S22 226000070 Switch SKHHAK013A [CW/N] S22 226000070 Switch SKHHAK013A [SSB] S23 760000100 Switch SKHHAK013A [SW) EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019550 P.C. Board B 1668 (SPEC) EP4 0910006330 Flexible Cable B 1932A (LED) EP3				
S13 2260000070 Switch SKHHAK013A [MW] S14 226000070 Switch SKHHAK013A [FUNC] S15 226000070 Switch SKHHAK013A [FUNC] S16 226000070 Switch SKHHAK013A [FUNC] S17 226000060 Switch SKHHAK013A [TUNER] S17 226000060 Switch SKHHAJ025A [BAND] S18 226000060 Switch SKHHAJ025A [MHz] S19 226000060 Switch SKHHAJ025A [KHz] S20 226000070 Switch SKHHAK013A [CW/N] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [SSB] S23 7600000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019550 P.C. Board B 1686 (SPEC) EP4 0910006330 Flexible Cable B 1932A (LED) <t< td=""><td></td><td></td><td></td><td></td></t<>				
S14 226000070 Switch SKHHAK013A [FUNC] S15 226000070 Switch SKHHAK013A [SPLIT] S16 226000070 Switch SKHHAK013A [SPLIT] S16 226000060 Switch SKHHAK013A [TUNER] S17 226000060 Switch SKHHAJ025A [BAND] S18 226000060 Switch SKHHAJ025A [BHz] S19 226000060 Switch SKHHAJ025A [KHz] S20 2260000070 Switch SKHHAK013A [CW/N] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHAK013A [CW/N] S23 760000100 Switch EC24850B0013A [MAIN] EP2	-			
S15 226000070 Switch SKHHAK013A [SPLIT] S16 226000070 Switch SKHHAK013A [TUNER] S17 226000060 Switch SKHHAK013A [TUNER] S17 226000060 Switch SKHHAJ025A [BAND] S18 226000060 Switch SKHHAJ025A [MHz] S19 226000060 Switch SKHHAJ025A [KHz] S20 2260000070 Switch SKHHAK013A [AM/FM] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [SSB] S23 760000100 Switch SKHHAK013A [SW] EP1 0910019544 P.C. Board B 1786D SW) EP2 0910019544 P.C. Board B 1786D SW) EP3 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 792				
S16 2260000070 Switch SKHHAK013A [TUNER] S17 226000060 Switch SKHHAJ025A [BAND] S18 226000060 Switch SKHHAJ025A [MHz] S19 2260000060 Switch SKHHAJ025A [MHz] S20 2260000070 Switch SKHHAJ025A [KHz] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S23 760000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP3 0910019544 P.C. Board B 1787D (VR) EP4 091000630 Flexible Cable B 792 EP5 091001931 P.C. Board B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 691000630 Ferrite Bead FSOH070RN		f .		
S17 226000060 Switch SKHHAJ025A [BAND] S18 226000060 Switch SKHHAJ025A [MHz] S19 226000060 Switch SKHHAJ025A [MHz] S20 226000000 Switch SKHHAJ025A [KHz] S20 2260000070 Switch SKHHAK013A [AM/FM] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [SSB] S23 760000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019550 P.C. Board B 1787D (VR) EP3 091001950 Flexible Cable B 792 EP4 0910006330 Flexible Cable B 1932A (LED) EP3 6910000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				
S18 226000060 Switch SKHHAJ025A [MHz] S19 226000060 Switch SKHHAJ025A [KHz] S20 226000000 Switch SKHHAJ025A [KHz] S21 2260000070 Switch SKHHAK013A [AM/FM] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [SSB] S23 7600000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019550 P.C. Board B 1787D (VR) EP3 0910019550 Flexible Cable B 792 EP4 0910006330 Flexible Cable B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN	-			
S19 226000060 Switch SKHHAJ025A [kHz] S20 2260000070 Switch SKHHAK013A [AM/FM] S21 2260000070 Switch SKHHAK013A [AM/FM] S22 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S23 7600000100 Switch SKHHAK013A [SSB] S23 7600000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019550 P.C. Board B 1868 (SPEC) EP4 091000630 Flexible Cable B 192 EP5 0910019931 P.C. Board B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				
S20 2260000070 Switch SKHHAK013A [AM/FM] S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [CW/N] S23 7600000100 Switch SKHHAK013A [SSB] S23 7600000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006300 Flexible Cable B 192 EP5 0910019931 P.C. Board B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				
S21 2260000070 Switch SKHHAK013A [CW/N] S22 2260000070 Switch SKHHAK013A [SSB] S23 7600000100 Switch SKHHAK013A [SSB] S23 7600000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 1932A (LED) EP5 091000630 Ferrite Bead FSOH070RN Ferrite Bead FSOH070RN				• • •
S22 2260000070 Switch SKHHAK013A [SSB] S23 7600000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019524 P.C. Board B 1787D (VR) EP3 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 792 EP5 0910019931 P.C. Board B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				
S23 7600000100 Switch EC24B50B0013A [MAIN] EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019524 P.C. Board B 1787D (VR) EP3 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 792 EP5 0910019931 P.C. Board B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				• • •
EP1 0910019544 P.C. Board B 1786D (SW) EP2 0910019524 P.C. Board B 1787D (VR) EP3 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 792 EP5 0910019931 P.C. Board B 1932A (LED) EP9 6910000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				
EP2 0910019524 P.C. Board B 1787D (VR) EP3 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 792 EP5 0910019931 P.C. Board B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN	323	700000100	Switch	EC24B30B0013A [MAIN]
EP2 0910019524 P.C. Board B 1787D (VR) EP3 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 792 EP5 0910019931 P.C. Board B 1932A (LED) EP9 691000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN	FP1	0910019544	P.C. Board	B 1786D (SW)
EP3 0910019550 P.C. Board B 1868 (SPEC) EP4 0910006330 Flexible Cable B 792 EP5 0910019931 P.C. Board B 1932A (LED) EP9 6910000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN		•••••		
EP4 0910006330 Flexible Cable B 792 EP5 0910019931 P.C. Board B 1932A (LED) EP9 6910000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				· ·
EP5 0910019931 P.C. Board B 1932A (LED) EP9 6910000630 Ferrite Bead FSOH070RN EP10 6910000630 Ferrite Bead FSOH070RN				, ,
EP96910000630Ferrite BeadFSOH070RNEP106910000630Ferrite BeadFSOH070RN				
EP10 6910000630 Ferrite Bead FSOH070RN				
	CF11	0910000030	Fennie Deau	

REF. NO.	ORDER NO.		DESCRIPTION	
IC1	1790000050	IC	ND487C1-3R	
IC2	1110001310	IC	μPC577HA	

REF. NO.	ORDER NO.		DESCRIPTION		REF. NO.	ORDER NO.	
IC4	1110000330	IC	M5218L		D6	1710000050	Dic
IC5	1110001320		μPC1037HA		D7	171000050	Dic
IC6 IC8	1110001320	IC IC	μΡC1037HA GD4066B		D8 D9	1710000050	Dic
109	1110000890		uPC1241H		D10	1710000160	Dic
IC10	1110000330	lic	M5218L		D11	1710000160	Dic
IC11	1110000330	IC	M5218L		D12	1710000330	Dic
IC13	1130003880	IC	GD4011B		D13	1710000330	Dic
IC14	1180000470	IC	NJM7808A		D14	1710000160	Die
IC15 IC16	1110000290		BA618 M54562P		D15 D16	1710000050	Die
	1120000370		MOROUZI		D17	1710000160	Die
					D18	1710000050	Die
Q1	1530000810	Transistor	2SC2053		D19	1710000050	Die
Q2	1580000100	FET	3SK74 K		D20	1710000050	Die
Q3 Q4	1580000100 1530000810	FET Transistor	3SK74 K 2SC2053		D21 D22	1710000050	Die
Q5	1520000230	Transistor	2SB909M Q		D23	1710000050	Die
Q6	1590000340	Transistor	RN1202		D24	1710000050	Die
Q7	1560000100	FET	2SK241-Y		D25	1710000050	Die
Q8	1560000130	FET	2SK125		D26	1710000050	Dic
Q9 Q10	1560000130 1590000360	FET	2SK125 RN2202		D27	1710000160	Dic
Q10	1590000360	Transistor Transistor	HN2202 2SC2458-GR		D28 D29	1710000050	Dic
212	1590000340	Transistor	RN1202		D29	1710000050	Die
Q13	1560000130	FET	2SK125		D31	1710000050	Die
Q14	1560000130	FET	2SK125		D32	1710000050	Die
Q15	1580000110	FET	3SK74 M		D33	1710000050	Die
Q16 Q17	156000080 151000080	FET	2SK192A-Y 2SA1048-GR		D34	1710000160	Dic
Q18	1530000110	Transistor Transistor	2SC2458-GR		D35 D36	1710000050	
Q19	1530000110	Transistor	2SC2458-GR		D37	1710000050	Die
220	1590000360	Transistor	RN2202	•	D38	1710000050	Dic
Q21	1580000110	FET	3SK74 M	-	D39	1710000050	Die
222 223	1560000100	FET	2SK241-Y		D40	1710000050	Dic
223	1590000340 1590000360	Transistor Transistor	RN1202 RN2202		D41 D42	1710000050	Dic
225	1590000360	Transistor	RN2202		D42	1710000050	Dic
026	1530000110	Transistor	2SC2458-GR		D44	1710000050	Dic
Q27	1580000110	FET	3SK74 M		D45	1710000050	Dic
Q28	1560000100	FET	2SK241-Y		D46	1710000050	Dio
Q29 Q30	1530000110 1530000110	Transistor Transistor	2SC2458-GR 2SC2458-GR		D47 D48	1710000050	Dic
Q31	1530000110	Transistor	2SC2458-GR		D48	1710000050	Dic
Q32	1590000340	Transistor	RN1202		D50	1710000050	Dic
Q33	1590000350	Transistor	RN1204		D51	1710000050	Dic
Q34	1590000340	Transistor	RN1202		D52	1710000050	Dio
Q35 Q36	1530000110 1530000110	Transistor Transistor	2SC2458-GR 2SC2458-GR		D55	1710000160	Dic
237	1530000110	Transistor	2SC2458-GR		D56 D57	1710000330	Dio
238	1510000080	Transistor	2SA1048-GR		D58	1710000160	Dic
Q39	1590000350	Transistor	RN1204		D59	1710000330	Dio
240	1530000110	Transistor	2SC2458-GR		D60	1710000330	Dic
Q41 Q42	1590000360 1530000110	Transistor	RN2202 2SC2458-GR		D61	1710000160	Dic
244	1530000110	Transistor Transistor	25C2458-GR		D62 D63	1710000330 1710000050	Dic
245	1530000110	Transistor	2SC2458-GR		D64	1710000160	Dic
246	1540000070	Transistor	2SD468C		D65	1710000160	Dic
247	1540000070	Transistor	2SD468C		D66	1710000160	Dio
248	1540000070	Transistor	2SD468C		D67	1710000050	Dio
Q49 Q50	1530000110 1530000110	Transistor	2SC2458-GR		D68	1710000050	Dio
250 251	159000340	Transistor Transistor	2SC2458-GR RN1202		D69 D70	1710000050	Dio
252	1540000150	Transistor	2SD1225M R		D71	1710000050	Dio
253	1510000080	Transistor	2SA1048-GR		D72	1710000160	Dio
254	1590000350	Transistor	RN1204	1	D73	1710000160	Dio
255	1590000350	Transistor	RN1204		D75	1710000160	Dio
256	1530000110	Transistor	2SC2458-GR		D76 D77	1710000160 1710000160	Dio Dio
					D77 D78	1710000160	Dio
	4740000050	Diode	1SS53		D79	1710000160	Dio
)1	1710000050						
02	1710000050	Diode	1SS53		D80	1730000070	
02 03	1710000050 1710000050	Diode Diode	18853		D81	1710000160	Dio
D1 D2 D3 D4 D5	1710000050	Diode					Zen Dio Dio Dio

MAIN				
REF. NO.	ORDER NO.		DESCRIPTION	
D6	1710000050	Diode	1SS53	
D7 D8	1710000050	Diode Diode	1SS53 1SS53	
D9	1710000050	Diode	18853	
D10	1710000160	Diode	155133	
D11	1710000160	Diode	1SS133	
D12	1710000330	Diode	1K60	
D13 D14	1710000330	Diode Diode	1K60 1SS133	
D14	1710000050	Diode	155135	
D16	1710000050	Diode	15853	
D17	1710000160	Diode	1SS133	
D18 D19	1710000050	Diode Diode	1SS53 1SS53	
D13	1710000050	Diode	18853	
D21	1710000050	Diode	1SS53	
D22	1710000160	Diode	1SS133	
D23 D24	1710000050	Diode Diode	1SS53 1SS53	
D24	1710000050	Diode	15553	
D26	1710000050	Diode	18853	
D27	1710000160	Diode	1SS133	
D28 D29	1710000050	Diode Diode	1SS53 1SS53	
D29 D30	1710000050	Diode	18853	
D31	1710000050	Diode	15853	
D32	1710000050	Diode	1\$\$53	
D33 D34	1710000050	Diode Diode	1SS53 1SS133	
D34 D35	1710000150	Diode	18853	
D36	1710000050	Diode	15853	
D37	1710000050	Diode	1SS53	
D38 D39	1710000050	Diode Diode	18853 18853	
D39 D40	1710000050	Diode	18853	
D41	1710000050	Diode	15553	
D42	1710000050	Diode	1SS53	
D43 D44	1710000050	Diode Diode	1SS53 1SS53	
D44 D45	1710000050	Diode	15553	
D46	1710000050	Diode	1SS53	
D47	1710000050	Diode	1SS53	
D48 D49	1710000050	Diode Diode	1SS53 1SS53	
D50	1710000050	Diode	15553	
D51	1710000050	Diode	1SS53	
D52	1710000050 1710000160	Diode Diode	1SS53 1SS133	
D55 D56	1710000330	Diode	1K60	
D57	1710000160	Diode	1SS133	
D58	1710000160	Diode	1SS133	
D59	1710000330	Diode	1K60	
D60 D61	1710000330 1710000160	Diode Diode	1K60 1SS133	
D62	1710000330	Diode	1K60	
D63	1710000050	Diode	1SS53	
D64	1710000160	Diode	155133	
D65 D66	1710000160 1710000160	Diode Diode	1SS133 1SS133	
D67	1710000050	Diode	18853	
D68	1710000050	Diode	1SS53	
D69	171000050	Diode	15553	
D70 D71	1710000050 1710000050	Diode Diode	1SS53 1SS53	
D72	1710000160	Diode	155133	
D73	1710000160	Diode	1SS133	
D75	1710000160	Diode	188133	
D76 D77	1710000160 1710000160	Diode Diode	1SS133 1SS133	
D78	1710000160	Diode	185133	
D79	1710000160	Diode	1SS133	
D80	1730000070	Zener	RD3.9E B2	
D81	1710000160 1710000160	Diode Diode	188133 188133	
D82 D83	1710000160	Diode	1SS133 1SS133	

REF. NO.	ORDER NO.	1	DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION
D84	1710000160	Diode	1SS133	L50	6180000820	Coil	LAL 03NA 2R7M
D85	1710000160	Diode	1SS133	L51	6180000830	Coil	LAL 03NA 3R3K
D86	1710000160	Diode	1SS133	L52	6180000900	Coil	LAL 03NA 101K
D87 D88	1710000160 1710000160	Diode Diode	1SS133 1SS133	L53 L54	6180000800 6180000780	Coil Coil	LAL 03NA 1R8M LAL 03NA 1R2M
D89	1710000160	Diode	1SS133	1.55	6180000790	Coil	LAL OSNA TRAM
D90	1710000160	Diode	1SS133	L56	6180000790	Coil	LAL 03NA 1R5M
D91	1710000160	Diode	155133	L57	6180000900	Coil	LAL 03NA 101K
D92	1710000160	Diode	1SS133	L.58	6180000780	Coil	LAL 03NA 1R2M
D93	1710000160	Diode	1SS133	L59	6180000770	Coil	LAL 03NA 1ROM
D94 D95	1710000160 1710000160	Diode Diode	1SS133 1SS133	L60 L61	6180000760 6180000760	Coil Coil	LAL 03NA R82M LAL 03NA R82M
D95	1710000160	Diode	1SS133	1.62	6180000900	Coil	LAL 03NA 101K
D97	1710000030	Diode	1S1555	L63	6180000760	Coil	LAL 03NA R82M
D98	1710000160	Diode	1SS133	L64	6180000750	Coil	LAL 03NA R68M
D99	1710000160	Diode	1SS133	L65	6180000750	Coil	LAL 03NA R68M
				L66	6180000740	Coil	LAL 03NA R56M
E11	2010000240	Filtor	7044154 (EL 71)	L67	6180000900	Coil	LAL 03NA 101K LAL 03NA R47M
FI1 FI2	2010000240 2010000270	Filter Filter	70M15A (FL-71) 9M15A (FL-23)	L68 L69	6180000730 6180000730	Coil	LAL 03NA R47M
FI3	2010000320	Filter	9M22D2 (FL-30)	L70	6180000730	Coil	LAL 03NA R47M
FI4	2010000950	Filter	9M6A1 (FL-116)	L71	6180000730	Coll	LAL 03NA R47M
				L72	6180000900	Coil	LAL 03NA 101K
				L73	6180000700	Coil	LAL 03NA R27M
X1	6050001800	Crystal	CR-49	L74	6180000700	Coll	LAL 03NA R27M
				L75 L76	6180000710 6180000710	Coil Coil	LAL 03NA R33M LAL 03NA R33M
L1	6140000080	Coil	LR-20	L77	6150001590	Coil	LS-175
	6180000700	Coil	LAL 03NA R27M	L78	6150001470	Coil	LS-163
	6180000710	Coil	LAL 03NA R33M	L79	6150001590	Coil	LS-175
L4	6180000860	Coil	LAL 03NA 5R6K	L80	6170000140	Coil	LW-15
	6180000960	Coil	LAL 03NA 102K	L81	6180000690	Coil	LAL 03NA R22M
	6140002050	Coil	LR-224	L82	6150001220	Coil	LS-134
	6150001770 6110001620	Coil Coil	LS-198 LA-245	L83 L85	6150001210 6180000900	Coil Coil	LS-133A LAL 03NA 101K
	6180000900	Coil	LAL 03NA 101K	L86	6180000900	Coil	LAL 03NA 101K
1 1	6140001460	Coil	LR-170	L87	6180000900	Coil	LAL 03NA 101K
L11	6140001260	Coil	LR-151	L88	6180000880	Coil	LAL 03NA 100K
	6180000740	Coil	LAL 03NA R56M	L89	6180000950	Coil	LAL 03NA 150K
	6180000690	Coll	LAL 03NA R22M	L90	6180000950	Coil	LAL 03NA 150K
	6150000990 6150001770	Coil Coil	LS-114 LS-198	L91 L92	618000900 618000900	Coil Coil	LAL 03NA 101K LAL 03NA 101K
	6150001770	Coil	LS-198	L93	6910000670	Coil	BT01RN1-A61-001
	6140002060	Coil	LR-225	L94	6180000900	Coil	LAL 03NA 101K
	6140002060	Coil	LR-225	L95	6180000900	Coil	LAL 03NA 101K
	6180000900	Coil	LAL 03NA 101K	L96	691000670	Coil	BT01RN1-A61-001
	6150001640	Coil	LS-180B	L97	6180000900	Coil	LAL 03NA 101K
	6150000700 6150000700	Coil Coil	LS-90A LS-90A	L98 L99	691000670 6180000900	Coil Coil	BT01RN1-A61-001 LAL 03NA 101K
	6180000950	Coil	LAL 03NA 150K	L100	6180000900	Coil	LAL 03NA 101K
1.25	6150001590	Coil	LS-175	L101	6180000900	Coil	LAL 03NA 101K
	6150001590	Coil	LS-175	L102	691000670	Coil	BT01RN1-A61-001
	6140000640	Coil	LR-86	L103	618000900	Coil	LAL 03NA 101K
	614000060 6110001650	Coil Coil	LR-18 LA-248	L104	6180002460	Coil	LAL 02KR 150K
	6180000700	Coil	LA-240 LAL 03NA R27M				
	6140002050	Coil	LR-224	R1	7010004150	Resistor	R20J 470 Ω
L32	6180000880	Coil	LAL 03NA 100K	R2	7010003960	Resistor	R20J 12 Ω
	6150001770	Coil	LS-198	R3	7010003360	Resistor	ELR20J 470 Ω
	6150002430	Coil	LS-254	R4	7010000950	Resistor	R25J 22 Ω
	6150002430 6150000990	Coil Coil	LS-254 LS-114	R5 R6	7010004310 7010003920	Resistor Resistor	R20J 8.2 kΩ R20J 5.6 Ω
	6150001470	Coil	LS-163	R7	7010004170	Resistor	R20J 680 Ω
	6180000940	Coil	LAL 03NA 270K	R8	7010003250	Resistor	ELR20J 56 Ω
L39	6180000930	Coil	LAL 03NA 220K	R9	7010003660	Resistor	ELR20J 100 kΩ
	6180000900	Coil	LAL 03NA 101K	R10	7010003660	Resistor	ELR20J 100 kΩ
	6180000900	Coil	LAL 03NA 101K	R11	7010003530	Resistor	ELR20J 10 kΩ ELR20J 47 Ω
	6180000850 6180000840	Coil Coil	LAL 03NA 4R7K LAL 03NA 3R9K	R12 R13	7010003240 7010003200	Resistor Resistor	ELR20J 47 Ω ELR20J 22 Ω
	6180000900	Coil	LAL 03NA 101K	R14	7010003200	Resistor	R20J 680 Ω
	6180000870	Coil	LAL 03NA 6R8K	R15	7010003490	Resistor	ELR20J 5.6 kΩ
L46	6180000850	Coil	LAL 03NA 4R7K	R16	7010003260	Resistor	ELR20J 68 Ω
	6180000900	Coil	LAL 03NA 101K	R17	7010004070	Resistor	R20J 100 Ω
	6180000820 6180000810	Coil Coil	LAL 03NA 2R7M LAL 03NA 2R2M	R18	7010004300	Resistor	R20J 6.8 kΩ R25J 1 Ω
L49 0				R19	7010000790	Resistor	

1		• •	·		1	-	I
	REF. NO.	ORDER NO.		DESCRIPTION		REF. NO.	
	R20	7010004230	Resistor	R20J 2.2 kΩ		R95	
	R21	7010003510	Resistor	ELR20J 6.8 kΩ		R96	
	R22	7010004090	Resistor	R20J 150 Ω		R97	
	R23	7010004270 7010003330	Resistor	R20J 4.7 kΩ ELR20J 270 Ω		R98 R99	l
	R24 R25	7010003330	Resistor Resistor	ELR20J 270 Ω		R100	
	R26	7010003190	Resistor	ELR20J 18 Ω		R101	l
	R27	7010003460	Resistor	ELR20J 3.3 kΩ		R102	ł
	R28	7010004230	Resistor	R20J 2.2 kΩ		R103	l
	R29	7010004230	Resistor	R20J 2.2 kΩ R25J 2.2 kΩ		R104 R105	l
	R30 R31	7010001190	Resistor Resistor	ELR20J 220 Ω		R105	l
	R32	7010000990	Resistor	R25J 47 Ω		R10	
	R33	7010003740	Resistor	ELR20J 470 kΩ		R108	
1	R34	7010003580	Resistor	ELR20J 22 kΩ		R109	ĺ
	R35 R36	7510000110 7010004130	Thermistor Resistor	ERT-D2FGL251S R20J 330 Ω		R110 R111	l
	R30 R37	7010003280	Resistor	ELR20J 100 Ω		R112	
	R38	7010004450	Resistor	R20J 100 kΩ		R113	l
	R39	7010004090	Resistor	R20J 150 Ω		R114	ļ
	R40	7010004070	Resistor	R20J 100 Ω		R115	
	R41 R42	7010003950	Resistor Resistor	R20J 10 Ω ELR20J 47 kΩ		R116 R117	
	R42	7010003660	Resistor	ELR20J 47 KM		R118	
ĺ	R44	7010001030	Resistor	R25J 100 Ω		R119	l
	R45	7010003620	Resistor	ELR20J 47 kΩ		R120	
	R46	7010003660	Resistor	ELR20J 100 kΩ		R121	l
	R47	7010003530	Resistor	ELR20J 10 kΩ ELR20J 6.8 kΩ		R122 R123	
	R48 R49	7010003510 7010004130	Resistor Resistor	R20J 330 Ω		R123	
	R50	7010003580	Resistor	ELR20J 22 kΩ		R125	ł
	R51	7010003400	Resistor	ELR20J 1 kΩ		R126	
	R52	7010004320	Resistor	R20J 10 kΩ		R127	
	R53 R54	7010004320	Resistor Resistor	R20J 10 kΩ R20J 2.2 kΩ		R128 R129	ł
	R55	7010004230	Resistor	R20J 2.2 kΩ		R129	
	R56	7010003460	Resistor	ELR20J 3.3 kΩ		R131	
	R57	7010004230	Resistor	R20J 2.2 kΩ		R132	
	R58	7010004070	Resistor	R20J 100 Ω		R133	
	R59 R60	7010004230 7010003440	Resistor Resistor	R20J 2.2 kΩ ELR20J 2.2 kΩ		R134 R135	l
	R61	7010004230	Resistor	R20J 2.2 k Ω		R136	ļ
	R62	7010003440	Resistor	ELR20J 2.2 kΩ		R137	
	R63	7010001030	Resistor	R25J 100 Ω		R138	ļ
	R64	7010004230	Resistor Resistor	R20J 2.2 kΩ R25J 470 Ω		R139 R140	
	R65 R66	7010001110	Resistor	R20J 220 Ω		R140	Į
	R67	7010003990	Resistor	R20J 22 Ω		R142	l
	R68	7010003320	Resistor	ELR20J 220 Ω		R143	
	R69	7010000870	Resistor	R25J 4.7 Ω		R144	ŀ
	R70	7010003440	Resistor	ELR20J 2.2 kΩ ELR20J 1 kΩ		R145 R146	
	R71 R72	7010003400	Resistor Resistor	ELR20J 1 KΩ ELR20J 1 kΩ		R140	
	R73	7010003360	Resistor	ELR20J 470 Ω		R148	
	R74	7010003360	Resistor	ELR20J 470 Ω		R149	
ł	R75	7010003530	Resistor	ELR20J 10 kΩ R20J 47 Ω		R150 R151	
	R76 R77	7010004030	Resistor Resistor	R20J 47 Ω R20J 150 Ω		R151	
	R78	7010001530	Resistor	R25J 1 MΩ		R153	
	R79	7010003990	Resistor	R20J 22 Ω		R154	1
	R80	7010004090	Resistor	R20J 150 Ω		R155	
	R81	7010000990	Resistor	R25J 47 Ω EL R20 L 2.2 kΩ		R156 R157	
	R82 R83	7010003440 7010004230	Resistor Resistor	ELR20J 2.2 kΩ R20J 2.2 kΩ		R157	1
	R84	7010004030	Resistor	R20J 47 Ω		R159	1
	R85	7310000760	Trimmer	RH0651CJ4J01A (223)		R160	
	R86	7010004070	Resistor	R20J 100 Ω		R161	1
	R87 R88	7010004950 7010003360	Resistor Resistor	R20J 1.5 MΩ ELR20J 470 Ω		R162 R164	1
	R89	7510000100	Thermistor	ERT-D2FGL601S		R165	1
	R90	7010003530	Resistor	ELR20J 10 kΩ		R166	
	R91	7010004030	Resistor	R20J 47 Ω		R167	
	R92	7010003340	Resistor	ELR20J 330 Ω		R168 R169	
	R93 R94	7010001110 7010000330	Resistor Resistor	R25J 470 Ω ELR25J 470 Ω		R169	
							1

No. DESCRIPTION No. NO. DESCRIPTION 96 7010004070 Resistor R20J 100 Ω 97 7010004070 Resistor R20J 100 Ω 98 7010004070 Resistor R20J 100 Ω 99 7010004070 Resistor R20J 100 Ω 101 7410000180 Resistor R20J 100 Ω 102 701000350 Resistor R2DJ 56 Ω 103 701000470 Resistor R2DJ 47 KΩ 104 7010003670 Resistor R2DJ 47 KΩ 106 701000470 Resistor R2DJ 47 KΩ 107 701000470 Resistor R2DJ 47 KΩ 108 701000470 Resistor R2DJ 22 KΩ 109 7010004370 Resistor R2DJ 10 KΩ 111 7010004570 Resistor R2DJ 22 KΩ 1114 701000350 Resistor R2DJ 33 MΩ 112 701000350 Resistor R2DJ 10 KΩ 119 701000350							
66 7010004070 Resistor R20J 100 Ω 97 7010004070 Resistor R20J 100 Ω 98 7010004070 Resistor R20J 100 Ω 100 7010004070 Resistor R20J 100 Ω 101 741000180 Resistor R2DJ 100 Ω 102 701000350 Resistor EL2DJ 390 Ω 103 701000420 Resistor REJ0J 47 KΩ 104 7010004270 Resistor REJ0J 47 KΩ 105 7010004270 Resistor REJ0J 47 KΩ 106 7010004370 Resistor REJJ 47 KΩ 110 731000750 Timmer RH0651C14J2WA (103) 111 701000420 Resistor REJJ 100 Ω 112 701000420 Resistor REJ0J 3 MΩ 113 701000420 Resistor REJ0J 3 MΩ 114 701000350 Resistor REJ0J	REF. NO.	ORDER NO.	D	ESCRIPTION			
7 7010004070 Resistor R20J 100 Ω 98 7010004070 Resistor R20J 100 Ω 100 7010004070 Resistor R20J 100 Ω 100 7010004070 Resistor R20J 100 Ω 101 7410004070 Resistor R20J 100 Ω 102 701000400 Resistor R2J 47 Ω 104 701000320 Resistor R2J 47 KΩ 105 701000320 Resistor R2J 47 KΩ 106 701000320 Resistor R2D 47 KΩ 107 731000750 Trimmer RH0651C14J2WA (103) 111 7010004320 Resistor R2DJ 33 MΩ 1114 7010004570 Resistor R2DJ 33 MΩ 115 7010004570 Resistor R2DJ 33 MΩ 116 731000750 Trimmer RH0651C142WA (103) 117 701000350 Resistor R2DJ 33 MΩ							
B8 7010004070 Resistor R20J 100 Ω 99 7010004070 Resistor R20J 100 Ω 101 741000180 Resistor R2DJ 100 Ω 101 741000350 Resistor ELR2DJ 390 Ω 102 701000350 Resistor ELR2DJ 47 KΩ 105 701000470 Resistor REJDJ 47 KΩ 106 701000470 Resistor R2DJ 47 KΩ 107 701000470 Resistor R2DJ 47 KΩ 108 7010004370 Resistor R2DJ 10 KΩ 101 731000750 Timmer RH0651C14.J2WA (103) 111 7010004370 Resistor R2DJ 10 KΩ 113 7010004300 Resistor R2DJ 10 KΩ 114 7010004300 Resistor R2DJ 10 KΩ 115 7010004300 Resistor R2DJ 10 KΩ 116 7310000750 Trimmer RH0651C14.J2WA							
99 7010004070 Resistor R20J 100 Ω 100 7010004070 Resistor R20J 100 Ω 101 7410000180 Resistor R20J 56 Ω 102 701000320 Resistor R20J 56 Ω 103 701000420 Resistor R20J 47 Ω 105 701000320 Resistor R20J 47 Q 106 701000420 Resistor R20J 47 Q 108 701000420 Resistor R2DJ 6 Q 109 701000420 Resistor R2DJ 10 Q 100 731000750 Trimmer RH0651C14J2WA (103) 111 7010004320 Resistor R2DJ 2k Ω 113 701000450 Resistor R2DJ 2k Ω 114 701000450 Resistor R2DJ 3 MΩ 115 701000450 Resistor R2DJ 3 MΩ 116 701000450 Resistor R2DJ 3 MΩ							
101 7410000180 Resistor Array RMX- B 103K 102 701000350 Resistor ELR20J 390 Ω 103 701000400 Resistor ELR20J 47 kΩ 104 7010004270 Resistor REJ3 47 Ω 105 7010004270 Resistor REJ0 47 kΩ 106 7010004270 Resistor REJ0 47 kΩ 107 7010004270 Resistor REJ0 47 kΩ 108 7010004270 Resistor REJ0 47 kΩ 109 7010004270 Resistor REJ1 4204X (103) 111 7010004370 Resistor REJ 100 Ω 112 7010004370 Resistor REJ 100 Ω 113 7010004370 Resistor REJ0 33 MΩ 114 7010004350 Resistor REJ0 32 kΩ 118 7010004350 Resistor REJ0 33 MΩ 119 7010004350 Resistor REJ0 32 kΩ 119 7010004350 Resistor REJ0 32 kΩ 120 7010004350 Resistor<	99						
102 7010003350 Resistor ELR20J 390 Ω 103 7010003620 Resistor R20J 56 Ω 104 7010003620 Resistor R25J 4.7 Ω 106 701000370 Resistor R25J 4.7 Ω 106 7010004270 Resistor R2DJ 47 kΩ 107 7010004320 Resistor R2DJ 22 kΩ 109 7010004320 Resistor R2DJ 26 kΩ 111 7010004320 Resistor R2DJ 10 kΩ 112 7010004320 Resistor R2DJ 10 kΩ 113 7010004570 Resistor R2DJ 10 kΩ 114 7010004570 Resistor R2DJ 10 kΩ 115 701000450 Trimmer RH0651C14J2WA (103) 116 7010004320 Resistor R2DJ 10 kΩ 117 7010004320 Resistor R2DJ 10 kΩ 118 7010004250 Resistor R2DJ 10 kΩ 1120 7010004250 Resistor ELR2U 10 kΩ 1212 701000340 Resistor <td></td> <td></td> <td></td> <td></td>							
104 7010003620 Resistor ELR20J 47 kΩ 105 7010004270 Resistor R25J 4.7 Ω 106 7010004270 Resistor ELR20J 470 kΩ 107 7010004370 Resistor ELR20J 470 kΩ 108 7010004320 Resistor R20J 22 kΩ 109 7010004320 Resistor R20J 10 kΩ 111 7010004320 Resistor R20J 10 kΩ 112 7010004320 Resistor R20J 10 kΩ 113 7010004370 Resistor R20J 22 kΩ 114 7010004570 Resistor R20J 22 kΩ 115 7010004570 Resistor R20J 22 kΩ 116 701000450 Resistor R20J 3.3 MΩ 118 701000450 Resistor R20J 3.3 MΩ 120 7010004380 Resistor R20J 3.3 MΩ 121 701000450 Resistor ELR20J 470 Ω 122 701000450 Resistor ELR20J 470 Ω 1217 701000350 Resistor </td <td></td> <td></td> <td></td> <td></td>							
105 701000870 Resistor R25J 4.7 Ω 106 7010004270 Resistor R20J 4.7 kΩ 107 7010004370 Resistor R20J 22 kΩ 108 7010004420 Resistor R20J 22 kΩ 109 7010004320 Resistor R20J 10 kΩ 111 7010004320 Resistor R20J 10 kΩ 112 7010004320 Resistor R20J 10 kΩ 113 7010004570 Resistor R20J 22 kΩ 114 7010004570 Resistor R20J 22 kΩ 118 7010004570 Resistor R20J 22 kΩ 118 7010004570 Resistor R20J 3.3 MΩ 118 7010004570 Resistor R20J 10 kΩ 120 701004250 Resistor R20J 10 kΩ 121 7010004250 Resistor R20J 3.3 kΩ 122 701003480 Resistor ELR20J 10 kΩ 123 701003480 Resistor ELR20J 4.7 kΩ 124 701003560 Resistor			-				
106 7010004270 Resistor R20J 4.7 kΩ 107 7010004270 Resistor ELR20J 470 kΩ 108 701000420 Resistor R20J 56 kΩ 110 7310000750 Trimmer RH0651C14J2WA (103) 111 701000420 Resistor R20J 10 kΩ 112 7010004320 Resistor R20J 10 kΩ 113 7010004320 Resistor R20J 22 kΩ 114 7010004570 Resistor R20J 22 kΩ 115 701000450 Trimmer RH0651C14J2WA (103) 114 701000350 Resistor R20J 22 kΩ 118 701000450 Resistor R20J 3.3 MΩ 119 701000450 Resistor R20J 10 kΩ 120 701000420 Resistor R20J 10 kΩ 121 701000440 Resistor ELR20J 10 kΩ 122 70100350 Resistor ELR20J 47 kΩ 123 701000340 Resistor ELR20J 47 kΩ 124 701000340 Resist							
108 7010004370 Resistor R20J 22 kΩ 109 701000420 Resistor R20J 56 kΩ 111 7010004320 Resistor R20J 10 kΩ 111 7010004320 Resistor R25J 100 Ω 111 7010004320 Resistor R25J 100 Ω 111 7010004370 Resistor R20J 2 kΩ 1116 7310004570 Resistor R20J 2 kΩ 1116 7310004570 Resistor R20J 2 kΩ 1116 7310004570 Resistor R20J 2 kΩ 1118 7010004350 Resistor R20J 3.3 MΩ 119 701000450 Resistor R20J 3.0 MΩ 120 70100450 Resistor R20J 3.0 MΩ 121 701004260 Resistor R20J 3.0 MΩ 122 701003580 Resistor ELR20J 470 Ω 124 701003560 Resistor ELR20J 4.7 KΩ 125 701003560 Resistor ELR20J 1.6 kΩ 1212 701003560 Resistor							
109 701000420 Resistor R20J 56 kΩ 110 7310000750 Trimmer RH0651C14J2WA (103) 111 7010004320 Resistor R25J 100 Ω 112 7010004570 Resistor R20J 1 MΩ 113 7010004570 Resistor R20J 22 kΩ 116 731000750 Trimmer RH0651C14J2WA (103) 117 701000350 Resistor ELR20J 22 kΩ 118 701000450 Resistor ELR20J 10 kΩ 120 701000450 Resistor R20J 3.3 MΩ 121 701000450 Resistor R20J 3.3 kΩ 122 701000450 Resistor R20J 3.3 kΩ 123 701000350 Resistor ELR20J 10 kΩ 124 701000350 Resistor ELR20J 470 Ω 125 701000360 Resistor ELR20J 16.8 kΩ 126 701000360 Resistor ELR20J 100 kΩ 127 701000360 Resistor R20J 470 Ω 124 701000340 R							
110 7310000750 Trimmer RH0651C14J2WA (103) 111 7010004320 Resistor R20J 10 kQ 112 7010004320 Resistor R20J 10 kQ 113 7010004370 Resistor R20J 10 kQ 114 7010004570 Resistor R20J 1 MQ 115 7010004570 Resistor R20J 1 MQ 116 7310000750 Trimmer RH0651C14J2WA (103) 117 701000350 Resistor R20J 10 kQ 118 701000450 Resistor R20J 10 kQ 120 701000450 Resistor R20J 10 kQ 121 701000360 Resistor ELR20J 470 Q 122 701000360 Resistor ELR20J 47 kQ 123 701000360 Resistor ELR20J 47 kQ 124 701000360 Resistor ELR20J 15 kQ 128 701000360 Resistor R20J 16 kQ 129 701000360 Resistor R20J 16 kQ 130 701000340 Resistor<							
112 7010001030 Resistor R25J 100 Ω 113 7010004570 Resistor ELR20J 3.3 MΩ 114 7010004570 Resistor R20J 22 kΩ 115 7010004570 Resistor R20J 22 kΩ 116 731000750 Trimmer RH0651C14J2WA (103) 117 701000450 Resistor ELR20J 10 kΩ 118 701000450 Resistor R20J 3.3 MΩ 120 7010004250 Resistor R20J 10 kΩ 121 7010003420 Resistor ELR20J 47 kΩ 123 7010003400 Resistor ELR20J 47 kΩ 124 701000360 Resistor ELR20J 68 kΩ 125 701000360 Resistor ELR20J 68 kΩ 126 701000360 Resistor ELR20J 10 kΩ 127 701000360 Resistor ELR20J 47 kΩ 128 701000360 Resistor ELR20J 47 kΩ 129 701000340 Resistor R20J 100 Ω 130 701000420 Resistor R20J 3.3 kΩ 1317 701000420 Resistor <td></td> <td></td> <td></td> <td></td>							
113 7010003820 Resistor ELR20J 3.3 MΩ 114 7010004570 Resistor R20.J 1 MΩ 115 7010004570 Resistor R20.J 22 kΩ 116 731000750 Trimmer RH0651C14J2WA (103) 117 701000350 Resistor ELR20J 22 kΩ 118 701000450 Resistor R2UJ 3.3 MΩ 119 701000350 Resistor R2DJ 10 kΩ 120 701000450 Resistor R2DJ 10 kΩ 121 701000350 Resistor ELR20J 470 Ω 122 701000350 Resistor ELR20J 470 Ω 124 701000350 Resistor ELR20J 15 kΩ 128 701000350 Resistor ELR20J 10 kΩ 128 701000340 Resistor ELR20J 10 kΩ 129 701000340 Resistor R20J 470 Ω 131 701000340 Resistor R20J 15 kΩ 132 701000340 Resistor R20J 16 kΩ 133 701000420 Resistor </td <td></td> <td></td> <td></td> <td></td>							
114 7010004570 Resistor R20J 1 MΩ 115 7010004570 Resistor R20J 22 KΩ 116 731000750 Trimmer RH0651C14J2WA (103) 117 701000350 Resistor ELR20J 22 KΩ 118 701000450 Resistor R20J 3.3 MΩ 119 701000450 Resistor R20J 10 kΩ 120 701000450 Resistor R20J 3.3 KΩ 121 701000340 Resistor ELR20J 470 Ω 122 701000350 Resistor ELR20J 470 Ω 123 701000350 Resistor ELR20J 68 KΩ 126 701000360 Resistor ELR20J 68 KΩ 127 701000340 Resistor ELR20J 10 Ω 128 701000340 Resistor R20J 17 KΩ 130 701000420 Resistor R20J 16 KΩ 131 701000430 Resistor R20J							
115 7010004370 Resistor R20J 22 kΩ 116 7310000750 Trimmer RH0651C14J2WA (103) 117 7010003500 Resistor ELR20J 22 kΩ 118 7010004610 Resistor R20J 3.3 MΩ 119 7010004250 Resistor R20J 10 kΩ 120 7010004250 Resistor R20J 10 kΩ 121 7010003420 Resistor ELR20J 47 kΩ 123 7010003480 Resistor ELR20J 47 kΩ 124 7010003460 Resistor ELR20J 47 kΩ 125 701000350 Resistor ELR20J 47 kΩ 126 701000360 Resistor ELR20J 47 kΩ 127 701000360 Resistor ELR20J 68 kΩ 128 701000360 Resistor ELR20J 20 kΩ 130 7010004150 Resistor R20J 10 kΩ 131 701000420 Resistor R20J 16 kΩ 133 701000420 Resistor R20J 13 kΩ 134 701000420 Resistor R20J 10 Ω 135 701000420 Resistor							
117 7010003580 Resistor ELR20J 22 kΩ 118 7010004610 Resistor R2DJ 3.3 MΩ 119 7010003530 Resistor R2DJ 10 kΩ 120 701000420 Resistor R2DJ 10 kΩ 121 701000420 Resistor R2DJ 10 kΩ 122 7010003400 Resistor ELR2DJ 470 Ω 123 7010003400 Resistor ELR2DJ 470 Ω 124 701000350 Resistor ELR2DJ 6.8 kΩ 126 701000360 Resistor ELR2DJ 10 kΩ 127 701000360 Resistor ELR2DJ 10 kΩ 128 701000360 Resistor ELR2DJ 10 kΩ 130 7010004150 Resistor R2DJ 470 Ω 131 7010004300 Resistor R2DJ 15 kΩ 133 7010004300 Resistor R2DJ 47 Ω 134 7010004300 Resistor R2DJ 13 KΩ 135 701000420 Resistor R2DJ 47 Ω 136 7010004300 Resistor R2DJ 47 Ω 137 7010004300 Resistor R	115	7010004370					
118 7010004810 Resistor R20J 3.3 MΩ 119 701000420 Resistor ELR20J 10 kΩ 120 701000420 Resistor R20J 100 Ω 121 7010004250 Resistor R20J 3.3 kΩ 122 701000380 Resistor ELR20J 470 Ω 123 701000380 Resistor ELR20J 470 Ω 124 701000350 Resistor ELR20J 4.7 kΩ 125 701000350 Resistor ELR20J 6.8 kΩ 126 701000360 Resistor ELR20J 10 kΩ 127 701000360 Resistor ELR20J 16 kΩ 128 701000360 Resistor ELR20J 16 kΩ 130 7010004150 Resistor R20J 15 kΩ 131 701000420 Resistor R20J 3.3 kΩ 132 701000420 Resistor R20J 3.3 kΩ 133 701000420 Resistor R20J 47 Ω 134 701000420 Resistor R20J 47 Ω 135 701000330 Resistor R20J 47 Ω 136 701000330 Resistor R20							
119 7010003530 Resistor ELR20J 10 kΩ 120 701000470 Resistor R20J 10 kΩ 121 7010004220 Resistor R20J 3.3 kΩ 122 701000350 Resistor ELR20J 470 Ω 123 701000350 Resistor ELR20J 470 Ω 124 701000350 Resistor ELR20J 4.7 kΩ 125 701000350 Resistor ELR20J 6.8 kΩ 127 701000360 Resistor ELR20J 16.8 kΩ 128 701000360 Resistor ELR20J 10.0 kΩ 129 701000340 Resistor ELR20J 16.0 kΩ 130 7010004150 Resistor R20J 15 kΩ 131 701000420 Resistor R20J 15 kΩ 132 701000420 Resistor R20J 3.3 kΩ 133 701000420 Resistor R20J 3.3 kΩ 134 701000420 Resistor R20J 47 Ω 135 701000420 Resistor R20J 47 Ω 136 701000420 Resistor R20J 47 Ω 137 701000430 Resistor <t< td=""><td></td><td></td><td></td><td></td></t<>							
121 7010004320 Resistor R20J 10 KΩ 122 7010004250 Resistor R20J 3.3 kΩ 123 7010003400 Resistor ELR20J 4.7 kΩ 124 7010003510 Resistor ELR20J 4.7 kΩ 125 7010003510 Resistor ELR20J 4.7 kΩ 126 7010003600 Resistor ELR20J 68 kΩ 127 7010003600 Resistor ELR20J 100 kΩ 128 7010003400 Resistor ELR20J 1 kΩ 129 701000440 Resistor R20J 470 Ω 131 7010004300 Resistor R20J 10 kΩ 132 7010004250 Resistor R20J 3.3 kΩ 133 7010004250 Resistor R20J 47 Ω 134 7010004250 Resistor R20J 47 Ω 135 7010004070 Resistor R20J 47 Ω 138 731000740 Timmer RH0651CS3J2KA (472) 138 731000740 Resistor R20J 47 Ω 140 751000120 Therm	119						
122 7010004250 Resistor R2JJ 3.3 kΩ 123 7010003450 Resistor ELR2JJ 470 Ω 124 701000350 Resistor ELR2JJ 15 kΩ 125 701000350 Resistor ELR2JJ 16 kΩ 126 701000360 Resistor ELR2JJ 68 kΩ 127 701000360 Resistor ELR2JJ 10 kΩ 128 701000340 Resistor ELR2JJ 10 kΩ 129 7010004150 Resistor R2JJ 470 Ω 130 701000430 Resistor R2JJ 470 Ω 131 701000430 Resistor R2JJ 3.3 kΩ 133 701000420 Resistor R2JJ 3.3 kΩ 134 701000420 Resistor R2JJ 47 Ω 135 701000420 Resistor R2J 47 Ω 136 701000430 Resistor R2J 47 Ω 137 701000430 Resistor R2J 47 Ω 138 731000740 Trimmer RH0651CS3J2KA (472) 139 701000350 Resistor							
124 7010003480 Resistor ELR20J 4.7 kΩ 125 7010003550 Resistor ELR20J 15 kΩ 126 7010003510 Resistor ELR20J 68 kΩ 127 7010003640 Resistor ELR20J 100 kΩ 128 7010003600 Resistor ELR20J 1 kΩ 129 7010004150 Resistor ELR20J 20 kΩ 130 7010004300 Resistor REJU 15 kΩ 131 7010004300 Resistor R20J 13 kΩ 132 7010004300 Resistor R20J 3.3 kΩ 133 7010004250 Resistor R20J 47 Ω 136 7010004250 Resistor R20J 47 Ω 137 7010004070 Resistor R20J 47 Ω 138 731000740 Trimmer RH0651CS3J2KA (472) 139 7010003300 Resistor ELR20J 10 kΩ 140 7510000120 Thermistor EHT-D2F6L332S 141 7010004300 Resistor R20J 47 Ω 142 7010003300 <							
125 7010003550 Resistor ELR20J 15 kΩ 126 7010003640 Resistor ELR20J 68 kΩ 127 7010003640 Resistor ELR20J 100 kΩ 128 7010003640 Resistor ELR20J 100 kΩ 129 7010003400 Resistor ELR20J 220 kΩ 130 7010004150 Resistor REQJ 470 Ω 131 7010004340 Resistor R20J 15 kΩ 133 7010004250 Resistor R20J 3.3 kΩ 134 7010004250 Resistor R20J 47 Ω 135 7010004030 Resistor R20J 47 Ω 136 7010004070 Resistor R20J 47 Ω 137 7010003530 Resistor R20J 100 Ω 138 731000740 Timmer RH0651CS3J2KA (472) 139 701000350 Resistor R20J 100 Ω 140 751000120 Thermistor ERT-D2FGL332S 141 701000470 Resistor R20J 470 Ω 142 701000300 Res	123	7010003360					
126 7010003510 Resistor ELR20J 6.8 kΩ 127 7010003640 Resistor ELR20J 10 kΩ 128 7010003660 Resistor ELR20J 1 kΩ 130 7010004150 Resistor ELR20J 220 kΩ 131 7010004300 Resistor R20J 470 Ω 132 7010004300 Resistor R20J 470 Ω 133 7010004300 Resistor R20J 47 Ω 134 7010004250 Resistor R20J 47 Ω 135 7010004070 Resistor R20J 47 Ω 136 7010004070 Resistor R20J 100 Ω 137 7010004070 Resistor R20J 100 Ω 138 731000740 Trimmer RH0651CS3J2KA (472) 139 701000350 Resistor R20J 100 Ω 140 751000120 Thermistor ELR20J 10 kΩ 141 7010003300 Resistor R20J 100 Ω 142 7010003300 Resistor R20J 10 Ω 144 701000420 Resistor							
128 7010003660 Resistor ELR20J 100 kΩ 129 7010004150 Resistor FLR20J 1 kΩ 130 7010004150 Resistor FLR20J 220 kΩ 131 7010004300 Resistor FLR20J 220 kΩ 132 7010004300 Resistor R20J 15 kΩ 133 7010004250 Resistor R20J 3.3 kΩ 135 7010004030 Resistor R20J 47 Ω 136 7010004030 Resistor R20J 47 Ω 137 7010004070 Resistor R20J 100 Ω 138 731000740 Trimmer RH0651CS3J2KA (472) 139 7010004070 Resistor ELR20J 10 kΩ 140 751000120 Thermistor ERT-D2FGL332S 141 7010004150 Resistor R20J 470 Ω 142 7010003300 Resistor R20J 470 Ω 143 7010004150 Resistor R20J 470 Ω 144 7010004410 Resistor R20J 470 Ω 144 701000430 Resistor R20J 10 Ω 145 701000330 Resistor <td></td> <td></td> <td></td> <td></td>							
129 7010003400 Resistor ELR20J 1 kΩ 130 7010004150 Resistor R20J 470 Ω 131 7010003700 Resistor ELR20J 220 kΩ 132 7010004340 Resistor R20J 15 kΩ 133 7010004300 Resistor R20J 68 kΩ 134 7010004250 Resistor R20J 33 kΩ 135 7010004250 Resistor R20J 47 Ω 136 7010004070 Resistor R20J 47 Ω 137 7010004070 Resistor R20J 100 Ω 138 731000740 Trimmer RH0651CS3J2KA (472) 139 7010004070 Resistor ELR20J 10 kΩ 140 751000120 Thermistor ERT-D2FGL332S 141 7010004150 Resistor R20J 470 Ω 142 7010003300 Resistor R20J 470 Ω 143 7010004150 Resistor R20J 47 Ω 144 701000330 Resistor R20J 470 Ω 144 701000330 Resistor R20J 10 Ω 145 7010003300 Resistor							
130 7010004150 Resistor R20J 470 Ω 131 7010003700 Resistor ELR20J 220 kΩ 132 7010004300 Resistor R20J 15 kΩ 133 7010004200 Resistor R20J 3.3 kΩ 134 701000420 Resistor R20J 47 Ω 135 701000420 Resistor R20J 47 Ω 136 7010004070 Resistor R20J 47 Ω 137 7010004070 Resistor R20J 100 Ω 138 731000740 Trimmer RH0651CS3J2KA (472) 139 7010003530 Resistor ELR20J 100 Ω 140 751000120 Thermistor ERT-D2FGL332S 141 701000300 Resistor R20J 470 Ω 142 701000300 Resistor R20J 100 Ω 143 7010004150 Resistor R20J 470 Ω 144 7010004410 Resistor R20J 470 Ω 144 701000330 Resistor R20J 470 Ω 144 701000420 Resistor R20J 10 Ω 145 7010003400 Resistor <td< td=""><td></td><td></td><td></td><td></td></td<>							
132 7010004340 Resistor R20J 15 kΩ 133 7010004300 Resistor R20J 3.3 kΩ 134 7010004250 Resistor R20J 3.3 kΩ 135 7010004030 Resistor R20J 47 Ω 136 7010004030 Resistor R20J 100 Ω 137 7010004070 Resistor R20J 100 Ω 138 7310000740 Trimmer RH0651CS3J2KA (472) 139 7010003530 Resistor ELR20J 10 kΩ 140 7510000120 Thermistor ERT-D2FGL332S 141 701000470 Resistor R20J 47 Ω 142 7010003300 Resistor R20J 47 Ω 143 701000470 Resistor R20J 47 Ω 144 701000410 Resistor R20J 47 Ω 144 701000430 Resistor R20J 2.2 kΩ 144 701000380 Resistor R20J 10 Ω 145 701003830 Resistor ELR20J 10 kΩ 146 701003830 Resistor ELR20J 10 kΩ 150 7010003830 Resistor <				R20J 470 Ω			
133 7010004300 Resistor R20J 6.8 kΩ 134 7010004250 Resistor R20J 3.3 kΩ 135 7010003240 Resistor R20J 47 Ω 136 7010004030 Resistor R20J 47 Ω 137 7010004070 Resistor R20J 100 Ω 138 731000740 Trimmer RH0651CS3J2KA (472) 139 7010003530 Resistor ELR20J 10 kΩ 140 7510000120 Thermistor ERT-D2FGL332S 141 7010003300 Resistor R20J 470 Ω 142 7010004150 Resistor R20J 470 Ω 143 7010004150 Resistor R20J 470 Ω 144 7010004230 Resistor R20J 2.2 kΩ 145 701000330 Resistor R20J 10 Ω 146 701000330 Resistor ELR20J 10 kΩ 147 701003300 Resistor ELR20J 10 kΩ 148 701003300 Resistor ELR20J 10 kΩ 150 701003300 Resistor ELR20J 10 kΩ 151 701003300 Resistor	131						
134 7010004250 Resistor R20J 3.3 kΩ 135 7010003240 Resistor ELR20J 47 Ω 136 7010004030 Resistor R20J 100 Ω 137 7010004070 Resistor R20J 100 Ω 138 7310000740 Trimmer RH0651CS3J2KA (472) 139 701000350 Resistor ELR20J 10 kΩ 140 7510000120 Thermistor ERT-D2FGL332S 141 7010003300 Resistor R20J 100 Ω 142 7010003300 Resistor R20J 470 Ω 143 7010004150 Resistor R20J 470 Ω 144 701000420 Resistor R20J 2.2 kΩ 145 701000420 Resistor R20J 2.2 kΩ 146 701000330 Resistor ELR20J 1.0 Ω 147 701000330 Resistor ELR20J 10 kΩ 148 701000330 Resistor R20J 1 Ω 150 701000330 Resistor ELR20J 1 kΩ 151 701000330 Resistor ELR20J 1 kΩ 152 701000330 Resistor							
136 7010004030 Resistor R20J 47 Ω 137 7010004070 Resistor R20J 100 Ω 138 7310000740 Trimmer RH0651CS3J2KA (472) 139 7010003530 Resistor ELR20J 10 kΩ 140 751000120 Thermistor ERT-D2FGL332S 141 7010004070 Resistor R20J 100 Ω 142 7010003300 Resistor R20J 100 Ω 144 7010004150 Resistor R20J 470 Ω 144 7010004410 Resistor R20J 470 Ω 144 701000430 Resistor R20J 470 Ω 144 701000430 Resistor R20J 47 Ω 145 701000330 Resistor R20J 47 Ω 146 701000330 Resistor ELR20J 2.2 kΩ 147 701000330 Resistor ELR20J 1 Ω 150 701000330 Resistor ELR20J 1							
137 7010004070 Resistor R20J 100 Ω 138 7310000740 Trimmer RH0651CS3J2KA (472) 139 7010003530 Resistor ELR20J 10 kΩ 140 7510000120 Thermistor ERT-D2FGL332S 141 7010004070 Resistor R20J 100 Ω 142 701000300 Resistor R20J 150 Ω 143 7010004150 Resistor R20J 47 Ω 144 7010004150 Resistor R20J 47 Ω 145 7010001030 Resistor R20J 2.2 kΩ 144 7010004230 Resistor ELR20J 2.2 kΩ 145 7010003300 Resistor ELR20J 2.2 kΩ 147 7010003300 Resistor ELR20J 1.0 148 7010003300 Resistor ELR20J 1.0 150 701000350 Resistor ELR20J 1.0 151 701000350 Resistor R20J							
138 731000740 Trimmer RH0651CS3J2KA (472) 139 7010003530 Resistor ELR20J 10 kΩ 140 7510000120 Thermistor ERT-D2FGL332S 141 701000300 Resistor R20J 100 Ω 142 701000300 Resistor R20J 150 Ω 143 7010004150 Resistor R20J 470 Ω 144 7010004410 Resistor R20J 47 Ω 145 701000340 Resistor R20J 22 kΩ 145 701000340 Resistor ELR20J 10 kΩ 146 701000330 Resistor ELR20J 2.2 kΩ 147 701000340 Resistor ELR20J 10 kΩ 148 701000350 Resistor ELR20J 10 kΩ 150 701000350 Resistor ELR20J 10 kΩ 151 701000350 Resistor ELR20J 10 kΩ 152 701000350 Resistor R20J 10 kΩ 153 701000350 Resistor R20J 10 kΩ 154 7010003400 Resis							
140 7510000120 Thermistor ERT-D2FGL332S 141 7010004070 Resistor R20J 100 Ω 142 7010003300 Resistor ELR20J 150 Ω 143 7010004150 Resistor R20J 470 Ω 144 701000410 Resistor R20J 47 kΩ 144 701000410 Resistor R20J 2.2 kΩ 145 701000420 Resistor R20J 2.2 kΩ 146 701000350 Resistor ELR20J 2.2 kΩ 147 701000350 Resistor ELR20J 1.0 kΩ 148 701000350 Resistor ELR20J 1.0 kΩ 149 701000350 Resistor ELR20J 1.0 kΩ 150 701000350 Resistor ELR20J 1.0 kΩ 151 701000350 Resistor ELR20J 10 kΩ 152 701000350 Resistor R20J 10 kΩ 153 701000420 Resistor R20J 10 kΩ 154 701000340 Resistor R20J 10 kΩ 155 7010003400 Resist	-			RH0651CS3J2KA (472)			
141 7010004070 Resistor R20J 100 Ω 142 7010003300 Resistor ELR20J 150 Ω 143 7010004150 Resistor R20J 470 Ω 144 7010004410 Resistor R20J 47 Ω 145 7010001030 Resistor R20J 47 Ω 146 701000420 Resistor R20J 2.2 kΩ 147 701000340 Resistor ELR20J 2.2 kΩ 148 7010003530 Resistor R20J 1 Ω 150 701000380 Resistor ELR20J 10 kΩ 151 701000380 Resistor ELR20J 10 kΩ 152 701000330 Resistor ELR20J 10 kΩ 153 701000350 Resistor ELR20J 10 kΩ 154 701000350 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 156 7010003480 Resistor R20J 10 kΩ 157 701003480 Resistor R20J 1 kΩ 158 7010003400 Resistor R20J 1 kΩ 159 7010003400 Resistor R20J 1	139						
1427010003300ResistorELR20J 150 Ω1437010004150ResistorR20J 470 Ω144701000410ResistorR20J 47 kΩ1457010001030ResistorR25J 100 Ω1467010004230ResistorR20J 2.2 kΩ147701000340ResistorELR20J 2.2 kΩ1487010003830ResistorELR20J 10 kΩ149701000380ResistorELR20J 1 Ω150701000380ResistorELR20J 1 δΩ1517010003300ResistorELR20J 1 δΩ1527010003300ResistorELR20J 10 kΩ153701000350ResistorELR20J 10 kΩ154701000350ResistorR20J 10 kΩ1557010004320ResistorR20J 10 kΩ1567010004320ResistorR20J 10 kΩ1577010004320ResistorR20J 1 kΩ158701000430ResistorR20J 1 kΩ1597010003400ResistorR20J 1 kΩ1597010003400ResistorR20J 2 Ω1607010003400ResistorR20J 2 Ω1617010003400ResistorELR20J 1 kΩ1627010003400ResistorELR20J 1 kΩ1637010003400ResistorR20J 22 Ω164701000360ResistorR20J 22 Ω165701000470ResistorR20J 20 Ω166701000470ResistorR20J 100 kΩ167701003450ResistorR20J 100							
144 7010004410 Resistor R20J 47 kΩ 145 7010001030 Resistor R25J 100 Ω 146 7010004230 Resistor R20J 2.2 kΩ 147 7010003400 Resistor ELR20J 2.2 kΩ 148 7010003500 Resistor ELR20J 2.2 kΩ 149 7010003300 Resistor ELR20J 10 kΩ 150 7010003300 Resistor ELR20J 150 Ω 151 7010003500 Resistor ELR20J 16Ω 152 7010003500 Resistor ELR20J 10 kΩ 153 701000350 Resistor R20J 10 kΩ 154 701000350 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 156 7010004320 Resistor R20J 10 kΩ 157 7010003480 Resistor R20J 1 kΩ 158 7010003400 Resistor							
1457010001030ResistorR25J 100 Ω1467010004230ResistorR20J 2.2 kΩ1477010003400ResistorELR20J 2.2 kΩ1487010003530ResistorELR20J 10 kΩ1497010003830ResistorELR20J 10 Ω1507010003800ResistorELR20J 150 Ω1517010003500ResistorELR20J 1 kΩ1527010003500ResistorELR20J 10 kΩ1537010003500ResistorRE20J 10 kΩ1547010003500ResistorR20J 10 kΩ1557010004320ResistorR20J 10 kΩ1567010004320ResistorR20J 10 kΩ1577010004320ResistorR20J 10 kΩ1587010004320ResistorR20J 1 kΩ1597010003400ResistorR20J 1 kΩ1597010003400ResistorR20J 3 kΩ1617010003400ResistorR20J 22 Ω162701003400ResistorR20J 22 Ω164701003660ResistorELR20J 1 kΩ165701000470ResistorR20J 100 kΩ166701000470ResistorR20J 100 kΩ166701000470ResistorR20J 100 kΩ1667010004450ResistorR20J 100 kΩ1667010004450ResistorR20J 100 kΩ167701000450ResistorR20J 100 kΩ168701000460ResistorR20J 100 kΩ168701000460Resistor							
146 7010004230 Resistor R20J 2.2 kΩ 147 7010003400 Resistor ELR20J 2.2 kΩ 148 7010003530 Resistor ELR20J 2.2 kΩ 148 7010003530 Resistor ELR20J 1.0 kΩ 149 7010003800 Resistor ELR20J 1.0 kΩ 150 7010003300 Resistor ELR20J 1.50 Ω 151 7010003500 Resistor ELR20J 1.0 kΩ 152 7010003500 Resistor ELR20J 10 kΩ 153 701000420 Resistor RELR20J 10 kΩ 154 7010003530 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 156 7010004300 Resistor R20J 1 kΩ 157 7010003400 Resistor R20J 1 kΩ 158 7010003400 Resistor R20J 33 kΩ 161 7010003400 Resistor R20J 32 Ω 162 7010003400							
1487010003530ResistorELR20J 10 kΩ1497010003830ResistorR20J 1 Ω1507010003300ResistorELR20J 150 Ω1517010003500ResistorELR20J 1 kΩ1527010003530ResistorELR20J 10 kΩ1537010003530ResistorELR20J 10 kΩ1547010003530ResistorELR20J 10 kΩ1557010004320ResistorR20J 10 kΩ1567010004320ResistorR20J 10 kΩ1577010004320ResistorR20J 10 kΩ1567010004320ResistorR20J 10 kΩ1577010003480ResistorR20J 1 kΩ1587010001150ResistorR20J 1 kΩ1597010003400ResistorR20J 33 kΩ1607010003400ResistorR20J 22 Ω1627010003400ResistorELR20J 10 kΩ1647010003660ResistorR20J 100 kΩ165701000470ResistorR20J 100 kΩ1667010004450ResistorR20J 100 kΩ1677010001400ResistorR20J 100 kΩ1687010003660ResistorR20J 100 kΩ		7010004230		R20J 2.2 kΩ			
149 7010003830 Resistor R2J 1 Ω 150 7010003300 Resistor ELR20J 150 Ω 151 7010003400 Resistor ELR20J 1 kΩ 152 7010003530 Resistor ELR20J 1 kΩ 153 7010003530 Resistor ELR20J 10 kΩ 154 7010003530 Resistor R20J 10 kΩ 155 701000350 Resistor R20J 10 kΩ 154 7010003420 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 156 7010004320 Resistor R20J 10 kΩ 157 7010003480 Resistor R20J 1 kΩ 158 7010001150 Resistor R20J 1 kΩ 159 7010003400 Resistor R20J 33 kΩ 160 7010003400 Resistor R20J 22 Ω 161 7010003400 Resistor ELR20J 1 kΩ 162 7010003400 Resistor ELR20J 100 kΩ 164 701003600 Resistor R20J 100 Ω 165 7010004070 Resistor R20J							
150 7010003300 Resistor ELR20J 150 Ω 151 7010003400 Resistor ELR20J 1 kΩ 152 7010003530 Resistor ELR20J 1 kΩ 153 7010003530 Resistor ELR20J 10 kΩ 153 7010003530 Resistor ELR20J 10 kΩ 153 7010003530 Resistor ELR20J 10 kΩ 154 7010003500 Resistor ELR20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 156 7010004320 Resistor R20J 1 kΩ 157 7010004300 Resistor ELR20J 4.7 kΩ 158 7010003400 Resistor ELR20J 1 kΩ 159 7010003400 Resistor R20J 33 kΩ 160 7010003990 Resistor ELR20J 1 kΩ 161 701000360 Resistor ELR20J 1 kΩ 162 7010003400 Resistor ELR20J 100 kΩ 164 701000360 Resistor							
152 7010003530 Resistor ELR20J 10 kΩ 153 7010004320 Resistor R20J 10 kΩ 154 7010003530 Resistor ELR20J 10 kΩ 154 7010003530 Resistor ELR20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 155 7010004300 Resistor R20J 1 kΩ 157 7010003480 Resistor ELR20J 4.7 kΩ 158 7010003400 Resistor R2LR20J 1 kΩ 159 7010003400 Resistor R20J 33 kΩ 160 7010003400 Resistor R20J 22 Ω 161 7010003400 Resistor ELR20J 1 kΩ 162 7010003400 Resistor ELR20J 1 kΩ 164 7010003660 Resistor R20J 100 kΩ 165 7010004070 Resistor		7010003300	Resistor	ELR20J 150 Ω			
153 7010004320 Resistor R20J 10 kΩ 154 7010003530 Resistor ELR20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 156 7010003480 Resistor R20J 1 kΩ 157 7010003480 Resistor R25J 1 kΩ 158 7010003400 Resistor R2DJ 33 kΩ 160 7010003400 Resistor R2DJ 33 kΩ 161 7010003400 Resistor R2DJ 22 Ω 162 7010003400 Resistor ELR20J 1 kΩ 164 7010003400 Resistor ELR20J 1 kΩ 165 7010003660 Resistor R20J 100 kΩ 165 701000470 Resistor R20J 100 kΩ 166 7010004450 Resistor <td< td=""><td></td><td></td><td></td><td></td></td<>							
154 7010003530 Resistor ELR20J 10 kΩ 155 7010004320 Resistor R20J 10 kΩ 156 7010004320 Resistor R20J 10 kΩ 156 7010004320 Resistor R20J 10 kΩ 156 7010003480 Resistor R20J 1 kΩ 157 7010003480 Resistor ELR20J 4.7 kΩ 158 7010003400 Resistor R2DJ 3 kΩ 160 7010003490 Resistor R20J 23 kΩ 161 7010003400 Resistor R2DJ 2 Ω 162 7010003400 Resistor ELR20J 1 kΩ 164 7010003400 Resistor ELR20J 1 kΩ 165 7010003660 Resistor R20J 100 kΩ 166 7010004450 Resistor R20J 100 kΩ 167 7010001400 Resistor R20J 100 kΩ 168 7010003660 Resistor							
156 7010004190 Resistor R20J 1 kΩ 157 7010003480 Resistor ELR20J 4.7 kΩ 158 7010001150 Resistor R25J 1 kΩ 159 7010003400 Resistor ELR20J 1 kΩ 160 7010003400 Resistor R20J 3 kΩ 161 701000390 Resistor R20J 22 Ω 162 7010003660 Resistor ELR20J 1 kΩ 164 7010003660 Resistor ELR20J 100 kΩ 165 7010004450 Resistor R20J 100 kΩ 166 7010004450 Resistor R20J 100 kΩ 165 7010004450 Resistor R20J 100 kΩ 166 7010004450 Resistor R20J 100 kΩ 167 7010001400 Resistor R20J 100 kΩ 168 7010003660 Resistor R20J 100 kΩ			Resistor	ELR20J 10 kΩ			
157 7010003480 Resistor ELR20J 4.7 kΩ 158 7010001150 Resistor R25J 1 kΩ 159 7010003400 Resistor ELR20J 1 kΩ 160 7010003400 Resistor R20J 33 kΩ 161 7010003900 Resistor R20J 22 Ω 162 7010003600 Resistor ELR20J 1 kΩ 164 7010003660 Resistor R20J 100 kΩ 165 7010004070 Resistor R20J 100 kΩ 166 7010004070 Resistor R20J 100 kΩ 166 7010004070 Resistor R20J 100 kΩ 167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor ELR20J 100 kΩ							
158 7010001150 Resistor R25J 1 kΩ 159 7010003400 Resistor ELR20J 1 kΩ 160 7010003400 Resistor R20J 33 kΩ 161 7010003990 Resistor R20J 22 Ω 162 7010003400 Resistor ELR20J 1 kΩ 162 7010003400 Resistor ELR20J 1 kΩ 164 701000360 Resistor R20J 100 kΩ 165 7010004070 Resistor R20J 100 Ω 166 7010004450 Resistor R20J 100 kΩ 167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor R20J 100 kΩ							
160 7010004390 Resistor R20J 33 kΩ 161 7010003990 Resistor R20J 22 Ω 162 7010003400 Resistor ELR20J 1 kΩ 164 7010003600 Resistor ELR20J 100 kΩ 165 7010004070 Resistor R20J 100 Ω 166 7010004070 Resistor R20J 100 Ω 166 7010004450 Resistor R20J 100 kΩ 167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor ELR20J 100 kΩ		7010001150	Resistor	R25J 1 kΩ			
161 7010003990 Resistor R20J 22 Ω 162 7010003400 Resistor ELR20J 1 kΩ 164 7010003660 Resistor ELR20J 100 kΩ 165 7010004070 Resistor R20J 100 μΩ 166 7010004450 Resistor R20J 100 μΩ 167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor ELR20J 100 μΩ							
162 7010003400 Resistor ELR20J 1 kΩ 164 7010003660 Resistor ELR20J 100 kΩ 165 7010004070 Resistor R20J 100 Ω 166 7010004450 Resistor R20J 100 kΩ 167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor ELR20J 100 kΩ							
165 7010004070 Resistor R20J 100 Ω 166 7010004450 Resistor R20J 100 kΩ 167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor ELR20J 100 kΩ	162	7010003400	Resistor	ELR20J 1 kΩ			
166 7010004450 Resistor R20J 100 kΩ 167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor ELR20J 100 kΩ		-					
167 7010001400 Resistor R25J 100 kΩ 168 7010003660 Resistor ELR20J 100 kΩ							
	167	7010001400	Resistor	R25J 100 kΩ			
	- 1						
170 7010004230 Resistor R20J 2.2 kΩ							

NO. DESCRIPTION NO. NO. DESCRIPTION R171 7010003440 Resistor ELR20J 2.2 kΩ R172 7010004230 Resistor R20J 2.2 kΩ R173 7010003480 Resistor ELR20J 4.7 kΩ R174 7010003420 Resistor ELR20J 3.9 kΩ R175 7010003420 Resistor ELR20J 1.5 kΩ R176 7010003660 Resistor ELR20J 1.00 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R179 7310000750 Trimmer RH0651C14J2WA R180 7010003480 Resistor ELR20J 100 kΩ R181 7010003480 Resistor ELR20J 2.2 kΩ R182 7010003430 Resistor ELR20J 10 kΩ R183 7010003420 Resistor ELR20J 10 kΩ R184 7010003530 Resistor ELR20J 10 kΩ R185 7010003720 Resistor ELR20J 30 kΩ	(104) (104) (104) (104) (105) (104) (104) (104) (104) (104) (104) (104) (104) (104) (104) (104) (104) (104) (104) (104) (105) (104) (105) (1	245 7010004320 246 7010004190 247 7010004300 248 7010004300 249 7010004300 249 7010004300 250 7010004300 251 7010004360 252 7010003460 253 7010003660 254 7010001280 255 7010004360 256 7010004270 257 7010003480 258 7010003480 259 7010003480 250 7010003480 251 7010003480 259 7010003480 260 7010003480 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003580	Resistor Resistor	RK09K1110AEFA R20J 10 kΩ R20J 1 kΩ R20J 6.8 kΩ R20J 1 MΩ R20J 1 MΩ R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ R20J 10 kΩ R20J 4.7 kΩ R20J 2.2 kΩ
R172 7010004230 Resistor R20J 2.2 kΩ R173 7010003480 Resistor ELR20J 4.7 kΩ R174 7010003420 Resistor R20J 3.9 kΩ R175 7010003420 Resistor ELR20J 1.5 kΩ R176 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R180 7010003440 Resistor ELR20J 100 kΩ R181 7010003440 Resistor ELR20J 20 kΩ R182 7010003480 Resistor ELR20J 2.2 kΩ R183 701000340 Resistor ELR20J 2.2 kΩ R184 7010003480 Resistor ELR20J 10 kΩ R184 7010003720 Resistor ELR20J 300 kΩ R185 7010003720 Resistor ELR20J 300 kΩ R186 731000790 Trimmer RH0651C15J1UA R188	(103) R25 (104) R25 (103) R25 (104) R25 (103) R25 (104) R25 (105)	245 7010004320 246 7010004190 247 7010004300 248 7010004300 249 7010004300 249 7010004300 250 7010004300 251 7010004360 252 7010003460 253 7010003660 254 7010001280 255 7010004360 256 7010004270 257 7010003480 258 7010003480 259 7010003480 250 7010003480 251 7010003480 259 7010003480 260 7010003480 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003580	Resistor Resistor	R20J 10 kΩ R20J 1 kΩ R20J 6.8 kΩ R20J 1 MΩ R20J 1 MΩ R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 3.3 kΩ
R173 7010003480 Resistor ELR20J 4.7 kΩ R174 7010004260 Resistor R20J 3.9 kΩ R175 7010003420 Resistor ELR20J 3.9 kΩ R175 7010003660 Resistor ELR20J 1.5 kΩ R176 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R179 7310000750 Trimmer RH0651C14J2WA R180 7010003440 Resistor ELR20J 2.0 kΩ R181 7010003440 Resistor ELR20J 2.2 kΩ R182 7010003480 Resistor ELR20J 2.2 kΩ R183 7010003420 Resistor ELR20J 10 kΩ R184 7010003720 Resistor ELR20J 3.0 kΩ R185 7010003620 Resistor R20J 4.7 kΩ R188 7010003620 Resistor <td>(103) R25 (103) R25 (103) R25 (103) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R26 (103) R26 (103) R26 (103) R26</td> <td>246 7010004190 247 7010004300 248 7010004300 248 7010004300 249 7010004300 250 7010001030 251 7010003440 252 7010003660 253 7010003660 254 7010001280 255 7010004400 256 7010004270 257 7010003480 258 7010003480 259 7010003480 260 7010003460 261 7010003460 262 7010003460 263 7010003460 264 7010003460 265 7010003460 264 7010003560</td> <td>Resistor Resistor</td> <td>R20J 1 kΩ R20J 6.8 kΩ R20J 1 MΩ R25J 100 Ω R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 47 κΩ R20J 47 κΩ R20J 47 κΩ R20J 47 kΩ R20J 47 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 3.3 kΩ</td>	(103) R25 (103) R25 (103) R25 (103) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R26 (103) R26 (103) R26 (103) R26	246 7010004190 247 7010004300 248 7010004300 248 7010004300 249 7010004300 250 7010001030 251 7010003440 252 7010003660 253 7010003660 254 7010001280 255 7010004400 256 7010004270 257 7010003480 258 7010003480 259 7010003480 260 7010003460 261 7010003460 262 7010003460 263 7010003460 264 7010003460 265 7010003460 264 7010003560	Resistor Resistor	R20J 1 kΩ R20J 6.8 kΩ R20J 1 MΩ R25J 100 Ω R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 47 κΩ R20J 47 κΩ R20J 47 κΩ R20J 47 kΩ R20J 47 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 3.3 kΩ
R174 7010004260 Resistor R20J 3.9 kΩ R175 7010003420 Resistor ELR20J 1.5 kΩ R176 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R180 7010003440 Resistor ELR20J 220 kΩ R181 7010003440 Resistor ELR20J 2.2 kΩ R182 701000340 Resistor ELR20J 10 kΩ R183 701000340 Resistor ELR20J 300 kΩ R184 7010004230 Resistor R20J 2.2 kΩ R185 7010003720 Resistor ELR20J 300 kΩ R186 7310000790 Trimmer RH0651C15J1UA R187 701000410 Resistor R20J 47 kΩ R188 <td< td=""><td>(103) R25 (103) R25 (103) R25 (103) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R26 (103) R26 (103) R26 (103) R26</td><td>247 7010004300 248 7010004570 249 7010001030 250 7010004300 251 7010004300 252 7010003660 253 7010003660 255 7010004270 256 7010004270 257 7010003480 258 7010003480 259 7010003480 256 7010003480 257 7010003480 260 7010003480 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003580 264 7010003580</td><td>Resistor Resistor</td><td>R20J 6.8 kΩ R20J 1 MΩ R25J 100 Ω R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 1 kΩ ELR20J 3.3 kΩ</td></td<>	(103) R25 (103) R25 (103) R25 (103) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R26 (103) R26 (103) R26 (103) R26	247 7010004300 248 7010004570 249 7010001030 250 7010004300 251 7010004300 252 7010003660 253 7010003660 255 7010004270 256 7010004270 257 7010003480 258 7010003480 259 7010003480 256 7010003480 257 7010003480 260 7010003480 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003580 264 7010003580	Resistor Resistor	R20J 6.8 kΩ R20J 1 MΩ R25J 100 Ω R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 1 kΩ ELR20J 3.3 kΩ
R175 7010003420 Resistor ELR20J 1.5 kΩ R176 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R179 7310000750 Trimmer RH0651C14J2WA R180 7010003440 Resistor ELR20J 22 kΩ R181 7010003480 Resistor ELR20J 2.2 kΩ R183 7010003400 Resistor ELR20J 4.7 kΩ R183 7010003720 Resistor ELR20J 30 kΩ R184 7010003720 Resistor ELR20J 30 kΩ R185 7010003720 Resistor R20J 4.7 kΩ R186 731000790 Trimmer RH0651C15J1UA R187 701000410 Resistor R20J 4	(103) R24 (103) R25 (103) R25 (103) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R25 (104) R26 (103) R26 (103) R26 (103) R26	248 7010004570 249 7010001030 250 701000360 251 701000360 252 7010003660 253 7010003660 254 7010003660 255 7010003660 256 7010004190 257 7010003480 258 7010003480 259 7010003480 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003530	Resistor Resistor	R20J 1 MΩ R20J 100 Ω R20J 47 Ω ELR20J 2.2 kΩ ELR20J 2.2 kΩ ELR20J 100 kΩ R20J 100 kΩ R20J 10 kΩ R20J 10 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 3.3 kΩ
R176 7010003660 Resistor ELR20J 100 kΩ R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R179 7310000750 Trimmer RH0651C14J2WA R179 7310000750 Trimmer RH0651C14J2WA R180 7010004490 Resistor ELR20J 120 kΩ R181 7010003440 Resistor ELR20J 2.2 kΩ R183 7010003480 Resistor ELR20J 4.7 kΩ R184 7010003500 Resistor ELR20J 2.2 kΩ R183 7010003720 Resistor ELR20J 3.0 kΩ R186 7310000790 Trimmer RH0651C15J1UA R187 701000410 Resistor R20J 4.7 kΩ R188 701000410 Resistor R20J 4.7 kΩ R189 7010004190 Resistor R20J 4.7 kΩ R190 7010004190 Resistor R20J 4.	A (103) R24 A (103) R25 R25 R25 R25 R25 R25 R25 R25 R25 R25	249 7010001030 250 7010004030 251 7010003640 252 7010003660 253 7010003660 254 7010001280 255 7010004190 256 7010004190 257 7010004190 258 7010001360 259 7010003480 261 7010003460 262 7010003460 263 7010003460 264 7010003460 265 7010003560	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R25J 100 Ω R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 3.3 kΩ
R177 7310000750 Trimmer RH0651C14J2WA R178 7010003660 Resistor ELR20J 100 kΩ R179 7310000750 Trimmer RH0651C14J2WA R180 7010003400 Resistor ELR20J 100 kΩ R181 7010003440 Resistor R20J 220 kΩ R182 7010003480 Resistor ELR20J 10 kΩ R183 7010003530 Resistor ELR20J 10 kΩ R183 7010003500 Resistor R20J 2.2 kΩ R184 7010003200 Resistor R20J 2.2 kΩ R185 7010003720 Resistor ELR20J 30 kΩ R186 7310000790 Trimmer RH0651C15J1UA R186 7010003620 Resistor R20J 47 kΩ R189 7010001110 Resistor R25J 470 Ω R189 7010004190 Resistor R20J 1 kΩ R190 7010004190 Resistor R20J 47 kΩ R192 7010003620 Resistor R20J 47 kΩ R192 7010003620 </td <td>A (103) R25 R25 R25 R25 R25 R25 R25 R25 R25 R25</td> <td>250 7010004030 251 7010003660 252 7010003660 253 7010003660 254 7010004190 255 7010004190 256 7010004190 257 7010003660 258 7010004270 259 7010003400 260 7010003400 261 7010003460 263 7010003460 264 7010003580 265 7010003580</td> <td>Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor</td> <td>R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R25J 47 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 3.3 kΩ</td>	A (103) R25 R25 R25 R25 R25 R25 R25 R25 R25 R25	250 7010004030 251 7010003660 252 7010003660 253 7010003660 254 7010004190 255 7010004190 256 7010004190 257 7010003660 258 7010004270 259 7010003400 260 7010003400 261 7010003460 263 7010003460 264 7010003580 265 7010003580	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R20J 47 Ω ELR20J 2.2 kΩ ELR20J 100 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R25J 47 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 4.7 kΩ ELR20J 3.3 kΩ
R178 7010003660 Resistor ELR20J 100 kΩ R179 7310000750 Trimmer RH0651C14J2WA R180 7010004490 Resistor R20J 220 kΩ R181 7010003440 Resistor ELR20J 2.2 kΩ R182 7010003480 Resistor ELR20J 2.2 kΩ R183 7010003530 Resistor ELR20J 10 kΩ R183 701000350 Resistor ELR20J 10 kΩ R183 7010003720 Resistor R20J 2.2 kΩ R185 7010003720 Resistor ELR20J 30 kΩ R186 731000790 Trimmer RH0651C15J1UA R186 701000410 Resistor R20J 47 kΩ R188 7010003620 Resistor R25J 470 Ω R189 7010001110 Resistor R20J 1 kΩ R190 7010004190 Resistor R20J 47 kΩ R192 7010003620 Resistor R20	(103) R25 R25 R25 R25 R25 R25 R25 R25 R25 R25	251 7010003440 252 7010003660 253 7010003660 254 7010001280 255 7010004190 256 70100034270 257 7010003460 258 70100034270 259 7010003420 260 7010003400 261 7010003460 263 7010003460 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	ELR20J 2.2 kΩ ELR20J 100 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 1 kΩ ELR20J 3.3 kΩ
R179 7310000750 Trimmer RH0651C14J2WA R180 7010004490 Resistor R20J 220 kΩ R181 7010003440 Resistor ELR20J 2.2 kΩ R182 7010003480 Resistor ELR20J 2.2 kΩ R183 7010003530 Resistor ELR20J 10 kΩ R184 7010004230 Resistor ELR20J 330 kΩ R185 7010003720 Resistor ELR20J 330 kΩ R186 7310000790 Trimmer RH0651C15J1UA R187 701004410 Resistor ELR20J 47 kΩ R188 7010003620 Resistor R20J 47 kΩ R189 7010001110 Resistor R20J 47 kΩ R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 1 kΩ R192 701000410 Resistor R20J 47 kΩ	A (103) R25 R25 R25 R25 R25 R25 R25 R25 R25 R25	252 7010003660 253 7010003660 254 7010001280 255 7010004190 256 7010003480 257 7010003480 258 7010001360 259 7010003480 260 7010003460 261 7010003460 263 7010003460 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	ELR20J 100 kΩ ELR20J 100 kΩ R25J 10 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R25J 47 kΩ R25J 47 kΩ ELR20J 1 kΩ ELR20J 1 kΩ ELR20J 3.3 kΩ
R180 7010004490 Resistor R20J 220 kΩ R181 7010003440 Resistor ELR20J 2.2 kΩ R182 7010003480 Resistor ELR20J 2.2 kΩ R183 7010003530 Resistor ELR20J 4.7 kΩ R184 7010004230 Resistor ELR20J 10 kΩ R185 7010003720 Resistor ELR20J 330 kΩ R186 731000790 Trimmer RH0651C15J1UA R188 7010003620 Resistor ELR20J 47 kΩ R188 7010003620 Resistor R20J 47 kΩ R188 7010001110 Resistor R20J 47 kΩ R190 7010004190 Resistor R20J 1 kΩ R191 701000410 Resistor R20J 47 kΩ R192 7010004210 Resistor R20J 47 kΩ	(104) R25 R25 R25 R25 R25 R25 R25 R25 R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	253 7010003660 254 7010001280 255 7010004190 256 7010004270 257 7010003480 258 7010001360 259 7010003400 260 7010003400 261 7010003460 263 7010003460 264 7010003500 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R25J 10 kΩ R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R20J 4.7 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 1 kΩ ELR20J 3.3 kΩ
R181 7010003440 Resistor ELR20J 2.2 kΩ R182 7010003480 Resistor ELR20J 4.7 kΩ R183 7010003530 Resistor ELR20J 4.7 kΩ R183 7010003530 Resistor ELR20J 10 kΩ R184 7010003720 Resistor R20J 2.2 kΩ R185 7010003720 Resistor ELR20J 30 kΩ R186 731000790 Trimmer RH0651C15J1UA R187 7010004410 Resistor R20J 47 kΩ R188 7010003620 Resistor ELR20J 47 kΩ R188 7010003110 Resistor R25J 470 Ω R189 7010004190 Resistor R20J 1 kΩ R190 7010004190 Resistor R20J 47 kΩ R192 7010003620 Resistor R20J 47 kΩ	(104) R25 R25 R25 R25 R25 R25 R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	254 7010001280 255 7010004190 256 7010004270 257 7010003480 258 7010001360 259 7010003400 260 7010003400 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R25J 47 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 470 Ω ELR20J 3.3 kΩ
R182 7010003480 Resistor ELR20J 4.7 kΩ R183 7010003530 Resistor ELR20J 10 kΩ R183 7010003530 Resistor ELR20J 10 kΩ R184 7010004230 Resistor R20J 2.2 kΩ R185 7010003720 Resistor ELR20J 330 kΩ R186 7310000790 Trimmer RH0651C15J1UA R187 701000410 Resistor R20J 47 kΩ R188 7010003620 Resistor R20J 47 kΩ R189 701000110 Resistor R25J 470 Ω R190 7010004190 Resistor R20J 1 kΩ R191 7010004190 Resistor R20J 47 kΩ R192 7010003620 Resistor R20J 47 kΩ	(104) R25 R25 R25 R25 R25 R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	255 7010004190 256 7010004270 257 7010003480 258 7010001360 259 7010003400 260 7010003400 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R20J 1 kΩ R20J 4.7 kΩ ELR20J 4.7 kΩ R25J 47 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 470 Ω ELR20J 3.3 kΩ
R183 7010003530 Resistor ELR20J 10 kΩ R184 7010004230 Resistor R20J 2.2 kΩ R185 7010003720 Resistor ELR20J 330 kΩ R186 7310000790 Trimmer RH0651C15J1UA R187 7010004410 Resistor R20J 47 kΩ R188 7010003620 Resistor ELR20J 47 kΩ R188 7010003620 Resistor R25J 470 Ω R189 7010004190 Resistor R20J 1 kΩ R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 47 kΩ R192 701000420 Resistor R20J 47 kΩ	(104) R25 R25 (104) R25 R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	2256 7010004270 257 7010003480 258 7010001366 259 7010004270 260 7010003460 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	ELR20J 4.7 kΩ R25J 47 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 470 Ω ELR20J 3.3 kΩ
R184 7010004230 Resistor R20J 2.2 kΩ R185 7010003720 Resistor ELR20J 330 kΩ R186 7310000790 Trimmer RH0651C15J1UA R187 7010004410 Resistor R20J 47 kΩ R188 7010003620 Resistor ELR20J 47 kΩ R189 7010003620 Resistor ELR20J 47 kΩ R189 7010001110 Resistor R25J 470 Ω R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 47 kΩ R192 7010003620 Resistor R20J 47 kΩ	(104) R25 R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	257 7010003480 258 7010001360 259 7010004270 260 7010003460 261 7010003460 262 7010003460 263 7010003460 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor Resistor	ELR20J 4.7 kΩ R25J 47 kΩ R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 470 Ω ELR20J 3.3 kΩ
R185 7010003720 Resistor ELR20J 330 kΩ R186 7310000790 Trimmer RH0651C15J1UA R187 7010004410 Resistor R20J 47 kΩ R188 7010003620 Resistor ELR20J 47 kΩ R188 7010003620 Resistor ELR20J 47 kΩ R189 7010001110 Resistor R25J 470 Ω R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 47 kΩ R192 7010003620 Resistor R20J 47 kΩ	(104) R25 (104) R25 R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	258 7010001360 259 7010004270 260 7010003400 261 7010003360 262 7010003460 263 7010004230 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor	R20J 4.7 kΩ ELR20J 1 kΩ ELR20J 470 Ω ELR20J 3.3 kΩ
R186 7310000790 Trimmer RH0651C15J1UA R187 7010004410 Resistor R20J 47 kΩ R188 7010003620 Resistor ELR20J 47 kΩ R189 7010001110 Resistor R25J 470 Ω R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 47 kΩ R192 701000420 Resistor R20J 1 kΩ	(104) R25 R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	259 7010004270 260 7010003400 261 7010003360 262 7010003460 263 7010004230 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor Resistor Resistor	ELR20J 1 ΚΩ ELR20J 470 Ω ELR20J 3.3 kΩ
R187 7010004410 Resistor R20J 47 kΩ R188 7010003620 Resistor ELR20J 47 kΩ R189 7010001110 Resistor R25J 470 Ω R190 7010004190 Resistor R20J 1 kΩ R191 701000410 Resistor R20J 1 kΩ R192 7010003620 Resistor R20J 47 kΩ	(103) R26 R26 R26 R26 R26 R26 R26 R26	260 7010003400 261 7010003360 262 7010003460 263 7010004230 264 7010003580 265 7010003530	Resistor Resistor Resistor Resistor	ELR20J 470 Ω ELR20J 3.3 kΩ
R188 7010003620 Resistor ELR20J 47 kΩ R189 7010001110 Resistor R25J 470 Ω R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 47 kΩ R192 7010003620 Resistor R20J 47 kΩ	A (103) R26 R26 R26 R26 R26 R26 R26 R26 R26 R26	261 7010003360 262 7010003460 263 7010004230 264 7010003580 265 7010003530	Resistor Resistor Resistor	ELR20J 3.3 kΩ
R189 7010001110 Resistor R25J 470 Ω R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 47 kΩ R192 7010003620 Resistor ELR20J 47 kΩ	(103) R26 R26 R26 R26 R26 R26 R26 R26	262 7010003460 263 7010004230 264 7010003580 265 7010003530	Resistor Resistor	
R190 7010004190 Resistor R20J 1 kΩ R191 7010004410 Resistor R20J 47 kΩ R192 7010003620 Resistor ELR20J 47 kΩ	(103) R26 R26 R26 R26 R26 R26 R26 R26	263 7010004230 264 7010003580 265 7010003530	Resistor	
R191 7010004410 Resistor R20J 47 kΩ R192 7010003620 Resistor ELR20J 47 kΩ	(103) R26 R26 R26 R26 R26 R26	264 7010003580 265 7010003530	1	
R192 7010003620 Resistor ELR20J 47 kΩ	(103) R26 R26 R26 R26 R26	265 7010003530	1	ELR20J 22 kΩ
	(103) R26 R26 R26		Resistor	ELR20J 10 kΩ
	(103) R26 R26	266 7010001150		R25J 1 kΩ
R194 7310000750 Trimmer RH0651C14J2WA	R26			ELR20J 4.7 kΩ
R195 7010003600 Resistor ELR20J 33 kΩ				ELR20J 470 Ω
			1	ELR20J 4.7 Ω
R196 7010003780 Resistor ELR20J 1 MΩ R197 7010004150 Resistor R20J 470 Ω	R27			R20J 6.8 kΩ
R198 7010004130 Resistor R20J 1 MΩ	R27	1		R20J 10 kΩ
R199 7010004570 Resistor ELR20J 10 MΩ	R27			ELR20J 680 Ω
R200 7010003220 Resistor R201 1 MΩ	R27	1		R20J 100 kΩ
	R27			R20J 10 kΩ
R201 7010004270 Resistor R20J 4.7 kΩ R202 7010001110 Resistor R25J 470 Ω	R27			ELR20J 1 Ω
R203 7010004100 Resistor R20J 270 kΩ	1.21			
R204 7010004500 Resistor ELR20J 330 kΩ				
R205 7010003360 Resistor ELR20J 470 Ω	C1	4010000520	Ceramic	DD108 B 472K 50V
R206 7010003650 Resistor ELR203 470 Ω				UZE 08X 104M
R206 7010003650 Resistor ELR20J 82 kΩ ‡				DD107 SL 221J 50V
R206 7010003650 Resistor ELR20J 4.7 kΩ ±				DD104 SL 470J 50V
R206 7010003480 Resistor ELR203 4.7 kΩ 2				DD107 SL 221J 50V
R207 7010003510 Resistor ELR20J 6.8 kΩ	F02 C6			DD104 SL 150J 50V
R208 7310000740 Trimmer RH0651CS3J2KA				DD106 SL 151J 50V
R209 7010003530 Resistor ELR20J 10 kΩ				UAT 04X 222K
R210 7310000790 Trimmer RH0651C15J1UA			-	UZE 08X 104M
R211 7010004530 Resistor R20J 470 kΩ	C10			UAT 05X 332K
R212 7010003480 Resistor ELR20J 4.7 kΩ	C11			DD104 SL 030C 50V
R213 7010003810 Resistor ELR20J 2.2 MΩ	C12			UP050 SL 150J
R214 7010003360 Resistor ELR20J 470 Ω	C13			DD105 SL 121J 50V
R215 7010001050 Resistor R25J 150 Ω	C14			DD108 B 472K 50V
R216 7010003530 Resistor ELR20J 10 kΩ	C15	i		DD108 B 472K 50V
R217 7010001400 Resistor R25J 100 kΩ	C16			DD104 SL 010C 50V
R218 7010004190 Resistor R20J 1 kΩ	C17		1	DD104 SL 100D 50V
R220 7010003740 Resistor ELR20J 470 kΩ	C18	1		DD104 SL 080D 50V
R221 7010003740 Resistor ELR20J 470 kΩ	C19			DD104 SL 010C 50V
R222 7010003530 Resistor ELR20J 10 kΩ	C20			DD104 B 102K 50V
R223 7010004070 Resistor R20J 100 Ω	C21			DD105 SL 101J 50V
R224 7010003530 Resistor ELR20J 10 kΩ	C23			DD104 SL 330J 50V
R225 7010000090 Resistor ELR25J 4.7 Ω	C25		1	DD104 B 102K 50V
R226 7010000370 Resistor ELR25J 1 kΩ	C26			DD104 SL 080D 50V
R227 7010000090 Resistor ELR25J 4.7 Ω	C27			UAT 05X 472K
R228 7010000370 Resistor ELR25J 1 kΩ	C28			DD108 B 472K 50V
R229 7010000090 Resistor ELR25J 4.7 Ω	C29			DD104 B 102K 50V
R230 7010003280 Resistor ELR20J 100 Ω	C30			DD108 B 472K 50V
R231 7410000140 Resistor Array RMX- 6 472K	C31			DD104 SL 050C 50V
R232 7010004110 Resistor R20J 220 Ω	C32		1	DD104 SL 050C 50V
R233 7010003480 Resistor ELR20J 4.7 kΩ	C33	· · · · · · · · · · · · · · · · · · ·		DD104 SL 680J 50V
R234 7010003480 Resistor ELR20J 4.7 kΩ	C34			DD104 SL 010C 50V
R235 7010003490 Resistor ELR20J 5.6 kΩ	C35			DD108 B 472K 50V
R236 7010004310 Resistor R20J 8.2 kΩ	C36			DD109 SL 471J 50V
R237 7010003380 Resistor ELR20J 680 Ω	C37		1	DD105 SL 121J 50V
R238 7310000860 Trimmer RH1051D13J0JA	4 4			UP125 SL 2R2K
R239 7010003540 Resistor ELR20J 12 kΩ	C39	4		DD104 SL 050C 50V
R240 7010003440 Resistor ELR20J 2.2 kΩ	C40			UZE 08X 104M
R241 7310000750 Trimmer RH0651C14J2WA				UZE 08X 104M
R242 7010004320 Resistor R20J 10 kΩ	C43			DD108 B 472K 50V
R243 7010001030 Resistor R25J 100 Ω	C44		1	DD108 B 472K 50V
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	

C46 4010000520 Ceramic DD108 B 472K 50V C47 4010000200 Ceramic DD104 SL 27JJ 500 C59 404000150 Barrier Layer UAT 05X 472K C51 451000150 Barrier Layer UAT 05X 472K C53 404000150 Barrier Layer UAT 05X 472K C54 404000150 Barrier Layer UAT 05X 472K C55 4010000520 Ceramic DD108 B 472K 50V C56 4010000520 Ceramic DD108 B 472K 50V C58 4010000520 Ceramic DD108 B 472K 50V C58 4010000520 Ceramic DD104 S L 22JJ 50 C59 451000100 Electrolytic 16 MS7 10 µF C61 4510001020 Ceramic DD108 B 472K 50V C65 4010000520 Ceramic DD108 B 472K 50V C66 4040000250 Barrier Layer UZE 08X 104M C74 4040000250 Barrier Layer UZE 08X 104M C77 4040000250 Barrier Layer	
C49 401000520 Ceramic DD108 B 472K 50V C51 4510001100 Electrolytic 16 MS7 10 µF C52 4040000150 Barrier Layer UAT 05X 472K C53 4040000150 Barrier Layer UAT 05X 472K C54 404000050 Barrier Layer UAT 05X 472K C55 401000520 Ceramic DD108 B 472K 50V C56 401000030 Ceramic DD108 B 472K 50V C58 401000030 Ceramic DD104 SL 220 J50 C60 4510001100 Electrolytic 16 MS7 10 µF C61 4510002640 Electrolytic 16 MS7 10 µF C62 404000050 Ceramic DD108 B 472K 50V C66 401000050 Ceramic DD108 B 472K 50V C66 404000050 Barrier Layer UAT 05X 472K C67 404000050 Barrier Layer UAT 05X 472K C68 4040000260 Barrier Layer UAT 05X 472K C68 4040000260 Barrier Layer UAT 08X 473M	
CS0 404000150 Barrier Layer UAT 05X 472K C51 4510001100 Electrolytic 16 MS7 10 µF C52 404000150 Barrier Layer UAT 05X 472K C53 404000150 Barrier Layer UAT 05X 472K C54 404000150 Barrier Layer UAT 05X 472K C55 4010000520 Ceramic DD108 B 472K 50V C56 4010000520 Ceramic DD104 SL 220J 500 C60 451000100 Electrolytic 16 MS7 10 µF C61 4510002640 Electrolytic 16 MS7 10 µF C62 4040000260 Barrier Layer UZE 08X 104M C64 4010000520 Ceramic D108 B 472K 50V C66 404000260 Barrier Layer UZE 08X 104M C71 404000260 Barrier Layer UAT 05X 472K C88 404000250 Barrier Layer UAT 08X 473M C71 404000250 Barrier Layer UAT 08X 473M C72 401000330 Ceramic D105 SL 101J 50	
C51 4510001100 Electrolytic 16 MS7 10 μF C52 4040000150 Barrier Layer UAT 05X 472K C53 4040000150 Barrier Layer UAT 05X 472K C54 4040000150 Barrier Layer UAT 05X 472K C55 4010000520 Ceramic DD108 B 472K 50V C58 4010000180 Ceramic DD105 S L 121 J 50V C59 4010000180 Ceramic DD108 B 472K 50V C61 4510002640 Electrolytic 16 MS7 10 μF C61 4510002640 Electrolytic 25 S 47 μF C62 4040000260 Barrier Layer UZE 08X 104M C63 4010000520 Ceramic DD108 B 472K 50V C66 4040000260 Barrier Layer UZE 08X 104M C70 4040000260 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4010000330 Ceramic DD105 SL 101J 50V	,
C53 4040000150 Barrier Layer UAT 05X 472K C54 404000050 Ceramic DD108 B 472K 50V C55 4010000520 Ceramic DD108 B 472K 50V C58 4010000520 Ceramic DD108 B 472K 50V C58 4010000520 Ceramic DD104 SL 220J 50 C69 451000100 Electrolytic 25 SS 47 µF C61 4510002640 Electrolytic 25 SS 47 µF C62 4040000260 Barrier Layer UZE 08X 104M C64 4010000520 Ceramic DD108 B 472K 50V C66 4040000260 Barrier Layer UZE 08X 104M C76 4040000260 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 401000030 Ceramic DD105 SL 101J 50N C73 4040000250 Barrier Layer UAT 08X 473M <td></td>	
C54 404000150 Barrier Layer UAT 05X 472K C55 4010000520 Ceramic DD108 B 472K 50V C56 4010000520 Ceramic DD108 B 472K 50V C58 4010000340 Ceramic DD105 S L121 J 50V C59 4010000180 Ceramic DD104 SL 220J 50V C61 451000260 Barrier Layer UZE 08X 104M C62 4040000260 Barrier Layer UZE 08X 104M C64 4010000520 Ceramic DD108 B 472K 50V C66 4040000260 Barrier Layer UAT 05X 472K C67 4040000250 Barrier Layer UAT 05X 472K C68 404000250 Barrier Layer UAT 05X 473K C71 404000250 Barrier Layer UAT 08X 473M C72 401000030 Ceramic DD105 SL 101J 50V C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M	
C55 4010000520 Ceramic DD108 B 472K 50V C58 4010000340 Ceramic DD108 S L 121J 50V C59 401000180 Ceramic DD104 S L 220J 50V C60 4510001100 Electrolytic 16 MS7 10 µF C61 4510002640 Electrolytic 25 S 47 µF C62 404000260 Barrier Layer UZE 08X 104M C64 401000520 Ceramic DD108 B 472K 50V C65 4010000520 Ceramic DD108 B 472K 50V C66 404000050 Barrier Layer UZE 08X 104M C87 404000050 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4010000330 Ceramic DD105 SL 101J 50V C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M </td <td></td>	
C56 4010000520 Ceramic DD108 B 472K 50V C58 4010000180 Ceramic DD105 SL 121J 500 C59 401000180 Ceramic DD104 SL 220J 500 C60 4510001100 Electrolytic 25 SS 47 µF C61 4510001200 Ceramic DD108 B 472K 50V C65 4040000260 Barrier Layer UZE 08X 104M C66 4040000150 Barrier Layer UAT 05X 472K C68 4040000150 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4010000300 Ceramic DD108 S 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M	,
C59 401000180 Ceramic DD104 SL 220J 50 C60 4510001100 Electrolytic 16 MS7 10 μF C61 451000260 Barrier Layer UZE 08X 104M C62 4040000260 Barrier Layer UZE 08X 104M C64 4010000520 Ceramic DD108 B 472K 50V C65 4010000520 Barrier Layer UZE 08X 104M C67 4040000260 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4010000330 Ceramic DD105 SL 101 J 50 C77 4010000330 Ceramic D104 SL 20 J 50 C81 4010000120 Ceramic D104 SL 200 J00	
C60 4510001100 Electrolytic 16 MS7 10 μF C61 4510002640 Electrolytic 25 SS 47 μF C62 4040000260 Barrier Layer UZE 06X 104M C64 4010000520 Ceramic DD108 B 472K 50V C65 4010000500 Barrier Layer UZE 08X 104M C67 4040000150 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UAT 06X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4010000300 Ceramic DD105 SL 101J 50N C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000350 Ceramic DD105 SL 101J 50N C76 4010000320 Ceramic DD104 SL 20J 50N C79 4010000320 Ceramic DD104 SL 100D 50 C81 4010000260 Barrier Layer UZE 08X 104M	
C61 4510002640 Electrolytic 25 SS 47 μF C62 4040000260 Barrier Layer UZE 08X 104M C64 4010000520 Ceramic DD108 B 472K 50V C65 4010000260 Barrier Layer UZE 08X 104M C66 4040000260 Barrier Layer UZE 08X 104M C67 4040000260 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4010000330 Ceramic DD105 SL 101J 50N C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000330 Ceramic DD105 SL 101J 50N C78 4010000320 Ceramic DD104 SL 100D 50° C80 4010000320 Ceramic DD104 SL 820 50N <td>v</td>	v
C62 404000260 Barrier Layer UZE 06X 104M C64 4010000520 Ceramic DD108 B 472K 50V C66 4040000260 Barrier Layer UZE 06X 104M C67 404000150 Barrier Layer UZE 06X 104M C68 4040000260 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UAT 06X 473M C71 4040000250 Barrier Layer UAT 06X 473M C72 4010000330 Ceramic DD105 SL 101 J 50V C73 4040000250 Barrier Layer UAT 06X 473M C74 4040000250 Barrier Layer UAT 06X 473M C75 4040000350 Ceramic DD105 SL 101 J 50V C76 4010000320 Ceramic DD104 SL 100D 50' C79 4010000320 Ceramic DD104 SL 100D 50' C80 4010000120 Ceramic DD104 SL 100D 50' C81 4040000260 Barrier Layer UZE 08X 104M <td></td>	
C65 4010000520 Ceramic DD108 B 472K 50V C66 404000260 Barrier Layer UZE 08X 104M C67 404000150 Barrier Layer UAT 05X 472K C68 4040000260 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 401000330 Ceramic DD105 SL 101J 50N C78 401000320 Ceramic DD104 SL 100D 50O C80 401000260 Barrier Layer UZE 08X 104M C82 401000260 Barrier Layer UZE 08X 104M C82 401000260 Ceramic DD104 SL 100D 50C C83 4010004840 Ceramic DD104 SL 050C 50C	
C66 4040000260 Barrier Layer UZE 08X 104M C67 404000150 Barrier Layer UAT 05X 472K C68 4040000250 Barrier Layer UZE 08X 104M C70 4040000250 Barrier Layer UZE 08X 104M C70 4040000250 Barrier Layer UAT 08X 473M C72 4010000250 Barrier Layer UAT 08X 473M C72 4010000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 401000030 Ceramic DD105 SL 101J 50N C77 401000030 Ceramic DD104 SL 100D 50N C79 4010000260 Barrier Layer UZE 08X 104M C82 4010000480 Ceramic DD104 SL 820J 50N C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD104 SL 080D 50N C85 4010000500 Ceramic DD104 SL 080D 50N	,
C67 4040000150 Barrier Layer UAT 05X 472K C68 4040000260 Barrier Layer UAT 05X 472K C69 4040000250 Barrier Layer UZE 08X 104M C70 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4010000250 Barrier Layer UAT 08X 473M C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C77 401000030 Ceramic DD105 SL 101J 50N C78 401000030 Ceramic DD104 SL 100D 50N C79 4010000320 Ceramic DD104 SL 100D 50N C80 40100004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD305 F 104Z 12V C85 401000070 Ceramic DD104 SL 080D 50N C86 404000260 Barrier Layer UZE 08X 104M C87 4010004840 Ceramic DD104 SL 080D 50N	'
C68 404000150 Barrier Layer UAT 05X 472K C69 404000260 Barrier Layer UZE 06X 104M C70 404000250 Barrier Layer UAT 08X 473M C71 404000250 Barrier Layer UAT 08X 473M C72 4010000300 Ceramic DD105 SL 101J 50N C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000300 Ceramic DD105 SL 101J 50N C78 4010000300 Ceramic DD104 SL 100D 50 C80 401000020 Ceramic DD104 SL 820J 50N C81 404000260 Barrier Layer UZE 08X 104M C82 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD104 SL 080D 50' C83 401000070 Ceramic D104 SL 080D 50' C84 4010000260 Barrier Layer UZE 08X 104M </td <td></td>	
C69 4040000260 Barrier Layer UZE 08X 104M C70 4040000250 Barrier Layer UAT 08X 473M C71 4040000250 Barrier Layer UAT 08X 473M C72 4010000300 Ceramic D105 SL 101J 50V C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000300 Ceramic DD105 SL 101J 50V C78 4010000300 Ceramic DD104 SL 100D 50 C80 4010000260 Barrier Layer UZE 08X 104M C82 4010000260 Barrier Layer UZE 08X 104M C82 40100004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD104 SL 080D 50' C83 401000070 Ceramic DD104 SL 080D 50' C84 401000060 Barrier Layer UZE 08X 104M C87 401000050 Ceramic DD104 SL 080D 50'	
C71 404000250 Barrier Layer UAT 08X 473M C72 4010000330 Ceramic DD105 SL 101J 50N C73 404000250 Barrier Layer UAT 08X 473M C74 404000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000330 Ceramic DD105 SL 101J 50N C78 4010000320 Ceramic DD104 SL 100D 50 C79 4010000320 Ceramic DD104 SL 100D 50 C80 4010000260 Barrier Layer UZE 08X 104M C82 401000120 Ceramic DD104 SL 100D 50 C83 401000480 Ceramic DD305 F 104Z 12V C84 401000480 Ceramic DD305 F 104Z 12V C85 4010000500 Ceramic DD104 SL 050C 50 C86 4040000260 Barrier Layer UZE 08X 104M C87 4010000070 Ceramic D104 SL 080D 50' C90 401000050 Ceramic D104 SL 060D 50'	
C72 4010000330 Ceramic DD105 SL 101J 50V C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000350 Ceramic DD105 SL 101J 50V C78 4010000350 Ceramic DD104 SL 100D 50V C80 4010000320 Ceramic DD104 SL 820J 50V C81 4040000260 Barrier Layer UZE 08X 104M C82 4010000120 Ceramic DD104 SL 100D 50V C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010000500 Ceramic DD104 SL 050C 50V C85 401000070 Ceramic DD104 SL 080D 50V C86 4040000260 Barrier Layer UZE 08X 104M C87 4010000100 Ceramic DD104 SL 080D 50V C90 4010000100 Ceramic DD104 SL 080D 50V C91 4040000260 Barrier Layer UZE 08X 104M	
C73 4040000250 Barrier Layer UAT 08X 473M C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000330 Ceramic DD105 SL 101J 50V C78 401000030 Ceramic DD106 SL 151J 50V C79 4010000260 Barrier Layer UZE 08X 104M C81 4040000260 Barrier Layer UZE 08X 104M C82 401000120 Ceramic DD104 SL 100D 50' C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD104 SL 080D 50' C83 4010000500 Ceramic DD104 SL 080D 50' C84 401000070 Ceramic DD104 SL 080D 50' C85 401000070 Ceramic DD104 SL 080D 50' C86 4040000260 Barrier Layer UZE 08X 104M C92 4010000100 Ceramic DD104 SL 080D 50' C93 4010000520 Ceramic DD104 SL 080D 50'	
C74 4040000250 Barrier Layer UAT 08X 473M C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000330 Ceramic DD105 SL 101J 50V C78 4010000350 Ceramic DD106 SL 151J 50V C79 4010000260 Barrier Layer UZE 08X 104M C82 4010000260 Barrier Layer UZE 08X 104M C82 40100004840 Ceramic DD104 SL 100D 500 C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD104 SL 000D 500 C83 4010000500 Ceramic DD104 SL 005C 500 C84 401000070 Ceramic DD104 SL 080D 500 C85 401000070 Ceramic DD104 SL 080D 500 C86 404000260 Barrier Layer UZE 08X 104M C87 401000050 Ceramic DD104 SL 080D 500 C99 401000050 Ceramic DD104 SL 080D 500 C91 4040000260 Barrier Layer UZE 08X 104M	*
C75 4040000250 Barrier Layer UAT 08X 473M C77 4010000330 Ceramic DD105 SL 101J 50V C78 4010000350 Ceramic DD106 SL 151J 50V C79 4010000320 Ceramic DD104 SL 100D 50V C80 4010000320 Ceramic DD104 SL 20D 50V C81 4040000260 Barrier Layer UZE 08X 104M C82 4010004840 Ceramic DD305 F 104Z 12V C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD104 SL 00D 50V C85 4010000500 Ceramic DD104 SL 050C 50V C86 404000260 Barrier Layer UZE 08X 104M C87 401000010 Ceramic DD104 SL 080D 50V C88 4010000260 Barrier Layer UZE 08X 104M C87 4010000520 Ceramic DD104 SL 060D 50V C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic D108 B 472K 50V	
C78 4010000350 Ceramic DD106 SL 151J 50V C79 4010000120 Ceramic DD104 SL 100D 50' C80 4010000320 Ceramic DD104 SL 820J 50V C81 4040000260 Barrier Layer UZE 08X 104M C82 401000120 Ceramic DD104 SL 100D 50' C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD305 F 104Z 12V C85 4010000500 Ceramic DD104 SL 050C 50' C86 4040000260 Barrier Layer UZE 08X 104M C87 401000070 Ceramic DD104 SL 050C 50' C89 4010000100 Ceramic DD104 SL 080D 50' C90 4010000520 Ceramic DD104 SL 080D 50' C91 4040000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD108 B 472K 50V C94 4010000520 Ceramic D108 B 472K 50V	
C79 401000120 Ceramic DD104 SL 100D 50 C80 4010000320 Ceramic DD104 SL 820J 50 C81 4040000260 Barrier Layer UZE 08X 104M C82 401000120 Ceramic DD104 SL 100D 50' C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD305 F 104Z 12V C84 4010000500 Ceramic DD104 B 102K 50V C85 401000070 Ceramic DD104 SL 080D 50' C86 4040000260 Barrier Layer UZE 08X 104M C87 401000070 Ceramic DD104 SL 080D 50' C89 4010000100 Ceramic DD104 SL 080D 50' C90 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic D108 B 472K 50V C94 4010000520 Ceramic D108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 783 µF C96 4010000520 Ceramic D108 B 472K 50V	
C80 4010000320 Ceramic DD104 SL 820J 50V C81 4040000260 Barrier Layer UZE 08X 104M C82 401000120 Ceramic DD104 SL 100D 50' C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD305 F 104Z 12V C85 4010000500 Ceramic DD104 B 102K 50V C86 404000260 Barrier Layer UZE 08X 104M C87 401000070 Ceramic DD104 SL 050C 50' C89 4010000100 Ceramic DD104 SL 080D 50' C90 4010000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD104 SL 080D 50' C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD108 B 472K 50V C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001180 Electrolytic 50 MS7 3R3 µF C99 4010000520 Ceramic DD108 B 472K 50V	
C81 4040000260 Barrier Layer UZE 08X 104M C82 4010000120 Ceramic DD104 SL 100D 500 C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD305 F 104Z 12V C85 4010000500 Ceramic DD305 F 104Z 12V C86 404000260 Barrier Layer UZE 08X 104M C87 401000070 Ceramic DD104 SL 050C 507 C89 4010000100 Ceramic DD104 SL 080D 507 C90 4010000100 Ceramic DD104 SL 080D 507 C91 4040000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD104 SL 080D 507 C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD108 B 472K 50V C95 4510001180 Electrolytic 50 MS7 3R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF	
C83 4010004840 Ceramic DD305 F 104Z 12V C84 4010004840 Ceramic DD305 F 104Z 12V C85 401000500 Ceramic DD104 B 102K 50V C86 404000260 Barrier Layer UZE 08X 104M C87 401000070 Ceramic DD104 SL 050C 50' C89 4010000100 Ceramic DD104 SL 080D 50' C90 4010000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD104 SL 080D 50' C93 4010000520 Ceramic DD104 SL 060D 50' C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD108 B 472K 50V C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 R47 μF C96 401000260 Barrier Layer DD108 B 472K 50V C97 4510001180 Electrolytic 25 SS 47 μF C101 4040000260 Barrier Layer UZE 08X 104M </td <td></td>	
C84 4010004840 Ceramic DD305 F 104Z 12V C85 4010000500 Ceramic DD104 B 102K 50V C86 4040000260 Barrier Layer UZE 08X 104M C87 401000070 Ceramic DD104 SL 050C 50' C89 4010000100 Ceramic DD104 SL 080D 50' C90 4010000260 Barrier Layer UZE 08X 104M C92 4010000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD104 SL 080D 50' C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD108 B 472K 50V C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 783 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510002640 Electrolytic 25 S 847 μF C100 4510002640 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic	
C854010000500CeramicDD104B102K50VC864040000260Barrier LayerUZE08X104MC87401000070CeramicDD104SL050C50'C894010000100CeramicDD104SL080D50'C904010000260Barrier LayerUZE08X104MC924010000520CeramicDD104SL080D50'C934010000520CeramicDD108B472K50VC944010000520CeramicDD108B472K50VC954510001150Electrolytic50MS7R47 μ FC964010000520CeramicDD108B472K50VC974510001180Electrolytic50MS7383 μ FC994010000520CeramicDD108B472K50VC1004510002640Electrolytic25S847 μ FC101404000260Barrier LayerUZE08X104MC1024010000500CeramicDD104B102K50VC1094510001100Electrolytic16MS710 μ FC110404000190Barrier LayerUAT05X103KC1124510001100Electrolytic50MS71 μ FC1134510001100Electrolytic50MS71 μ FC1144010000520CeramicDD108B472K<	
C86 404000260 Barrier Layer UZE 08X 104M C87 401000070 Ceramic DD104 SL 050C 500 C89 4010000100 Ceramic DD104 SL 080D 500 C90 4010000260 Barrier Layer UZE 08X 104M C91 404000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD104 SL 080D 500 C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD108 B 472K 50V C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 3R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 404000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V <td></td>	
C89 401000100 Ceramic DD104 SL 080D 50' C90 401000100 Ceramic DD104 SL 080D 50' C91 404000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD104 SL 080D 50' C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 404000260 Barrier Layer UZE 08X 104M C102 <t< td=""><td></td></t<>	
C90 401000100 Ceramic DD104 SL 080D 50' C91 404000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD104 SL 080D 50' C93 4010000520 Ceramic DD108 B 472K 50V C93 4010000520 Ceramic DD104 SL 060D 50' C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 3R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 404000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF	v
C91 4040000260 Barrier Layer UZE 08X 104M C92 4010000520 Ceramic DD108 B 472K 50V C93 401000080 Ceramic DD104 SL 060D 50' C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 R33 μF C99 4010000520 Ceramic DD108 B 472K 50V C97 451000180 Electrolytic 25 SS 47 μF C100 4510002640 Electrolytic 25 SS 47 μF C101 4040000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001160 Electrolytic 50 MS7 1 μF	
C92 4010000520 Ceramic DD108 B 472K 50V C93 401000080 Ceramic DD104 SL 060D 500 C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 R33 μF 50 C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 S 47 μF C101 404000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X <	v
C93 401000080 Ceramic DD104 SL 060D 50' C94 4010000520 Ceramic DD108 B 472K 50V C95 4510001150 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 3R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 404000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 50 MS7 1 μF C113 4510001100 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V	,
C95 4510001150 Electrolytic 50 MS7 R47 μF C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 3R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 404000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 404000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001160 Electrolytic 50 MS7 1 μF C114 401000520 Ceramic DD108 B 472K 50V C115 451000160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V	v
C96 4010000520 Ceramic DD108 B 472K 50V C97 4510001180 Electrolytic 50 MS7 3R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 404000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 404000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 S 47 μF C116 4010000330 Ceramic </td <td>1</td>	1
C97 4510001180 Electrolytic 50 MS7 3R3 μF C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 4040000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001100 Electrolytic 50 MS7 12 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 451000160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	
C99 4010000520 Ceramic DD108 B 472K 50V C100 4510002640 Electrolytic 25 SS 47 μF C101 4040000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V <td></td>	
C101 4040000260 Barrier Layer UZE 08X 104M C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	,
C102 4010000500 Ceramic DD104 B 102K 50V C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001100 Electrolytic 50 MS7 1 μF C113 451000160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 8 472K 50V C115 4510002640 Electrolytic 25 S 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	
C109 4510001100 Electrolytic 16 MS7 10 μF C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001100 Electrolytic 16 MS7 10 μF C113 4510001160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	,
C110 4040000190 Barrier Layer UAT 05X 103K C112 4510001100 Electrolytic 16 MS7 10 μF C113 4510001160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	
C113 4510001160 Electrolytic 50 MS7 1 μF C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	
C114 4010000520 Ceramic DD108 B 472K 50V C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	
C115 4510002640 Electrolytic 25 SS 47 μF C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	,
C116 4010000330 Ceramic DD105 SL 101J 50V C117 4010000350 Ceramic DD106 SL 151J 50V	
C117 4010000350 Ceramic DD106 SL 151J 50V	v l
C118 4010000520 Ceramic DD108 B 472K 50V	
C119 4010000520 Ceramic DD108 B 472K 50V C120 4040000260 Barrier Layer UZE 08X 104M	
C120 4040000200 Barrier Layer 522 06X 104M C121 4010000520 Ceramic DD108 B 472K 50V	
C122 4010000520 Ceramic DD108 B 472K 50V	
C123 4010000380 Ceramic DD107 SL 221J 50V	/
C124 4510001140 Electrolytic 50 MS7 R22 μF	
C125 4040000250 Barrier Layer UAT 08X 473M C126 4010000520 Ceramic DD108 B 472K 50V	
C127 4010000520 Ceramic DD108 B 472K 50V	
C128 4010000350 Ceramic DD106 SL 151J 50V	/
C129 4010000180 Ceramic DD104 SL 220J 50V	
C130 4010000520 Ceramic DD108 B 472K 50V C132 4010000520 Ceramic DD108 B 472K 50V	
C132 4010000520 Ceramic DD108 B 472K 50V C133 4010000520 Ceramic DD108 B 472K 50V	
C135 4010000520 Ceramic DD108 B 472K 50V	

[MAIN UNIT]

C136 4010000520 Ceramic DD108 B 472K 50V C137 4010000180 Ceramic DD104 SL 220 50V C138 4010000520 Ceramic DD104 SL 220 50V C139 4010000520 Ceramic DD104 B 102K 50V C140 4010000520 Ceramic DD104 B 102K 50V C141 4010000520 Ceramic DD108 B 472K 50V C142 4010000520 Ceramic DD108 B 472K 50V C142 401000080 Ceramic DD104 SL 060D 50V C143 404000080 Barrier Layer UAT 04X 122K C144 4040000170 Barrier Layer UAT 05X 682K C144 4040000210 Barrier Layer UAT 04X 152K C147 4040000070 Barrier Layer UAT <t< th=""><th></th></t<>	
C138 4010000520 Ceramic DD108 B 472K 50V C139 4010000500 Ceramic DD104 B 102K 50V C140 4010000520 Ceramic DD108 B 472K 50V C140 4010000520 Ceramic DD108 B 472K 50V C141 4010000520 Ceramic DD108 B 472K 50V C142 401000080 Ceramic DD104 SL 060D 50V C143 404000080 Barrier Layer UAT 04X 122K C144 4040000170 Barrier Layer UAT 05X 682K C145 4040000210 Barrier Layer UAT 06X 153K C146 4040000210 Barrier Layer UAT 04X 152K C146 4040000070 Barrier Layer UAT 04X 102K C148 4040000070 Barrier Layer UAT 04X 102K <td></td>	
C139 4010000500 Ceramic DD104 B 102K 50V C140 4010000520 Ceramic DD108 B 472K 50V C141 4010000520 Ceramic DD108 B 472K 50V C141 4010000520 Ceramic DD108 B 472K 50V C142 401000080 Ceramic DD104 SL 060D 50V C143 404000080 Barrier Layer UAT 04X 122K C144 4040000170 Barrier Layer UAT 05X 682K C145 4040000210 Barrier Layer UAT 05X 682K C146 4040000210 Barrier Layer UAT 06X 153K C147 4040000070 Barrier Layer UAT 04X 102K C148 404000070 Barrier Layer UAT 04X 102K C149 4020000630 Cylinder UP050 B 101K C150 404000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 08X 473M C152 4040000260	
C140 4010000520 Ceramic DD108 B 472K 50V C141 4010000520 Ceramic DD108 B 472K 50V C142 401000080 Ceramic DD104 SL 060D 50V C143 404000080 Barrier Layer UAT 04X 122K C144 4040000170 Barrier Layer UAT 04X 122K C145 4040000210 Barrier Layer UAT 05X 682K C146 4040000210 Barrier Layer UAT 06X 153K C147 4040000210 Barrier Layer UAT 04X 152K C148 404000070 Barrier Layer UAT 04X 102K C149 402000630 Cylinder UP050 101K C150 4040000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C151 4040000250	
C141 4010000520 Ceramic DD108 B 472K 50V C142 401000080 Ceramic DD104 SL 060D 50V C143 404000080 Barrier Layer UAT 04X 122K C143 404000080 Barrier Layer UAT 04X 122K C144 404000170 Barrier Layer UAT 05X 682K C145 4040000210 Barrier Layer UAT 05X 682K C146 4040000210 Barrier Layer UAT 06X 153K C147 4040000070 Barrier Layer UAT 04X 102K C148 4040000070 Barrier Layer UAT 04X 102K C149 4020000630 Cylinder UP050 B 101K C150 4040000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 08X 473M C152 4040000260	
C143 404000080 Barrier Layer UAT 04X 122K C144 404000170 Barrier Layer UAT 05X 682K C145 4040000460 Barrier Layer UAT 05X 682K C145 4040000210 Barrier Layer RAU 08SA 821K C146 4040000210 Barrier Layer UAT 06X 153K C147 4040000090 Barrier Layer UAT 04X 152K C148 404000070 Barrier Layer UAT 04X 102K C149 402000630 Cylinder UP050 B 101K C150 4040000250 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 08X 473M C152 4040000260 Barrier Layer UZE 08X 104M C153 404000260 Barrier Layer UZE 08X 104M	
C144 404000170 Barrier Layer UAT 05X 682K C145 404000460 Barrier Layer RAU 08SA 821K C146 4040000210 Barrier Layer UAT 06X 153K C147 404000090 Barrier Layer UAT 06X 153K C148 404000070 Barrier Layer UAT 04X 152K C149 402000630 Cylinder UP050 B 101K C150 404000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C152 4040000260 Barrier Layer UAT 04X 102K C153 404000260 Barrier Layer UAT 04X 102K	
C145 404000460 Barrier Layer RAU 08SA 821K C146 404000210 Barrier Layer UAT 06X 153K C147 404000090 Barrier Layer UAT 06X 153K C147 404000090 Barrier Layer UAT 04X 152K C148 404000070 Barrier Layer UAT 04X 102K C149 4020000630 Cylinder UP050 B 101K C150 404000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C152 4040000260 Barrier Layer UAT 08X 473M C153 4040000260 Barrier Layer UZE 08X 104M	
C146 404000210 Barrier Layer UAT 06X 153K C147 404000090 Barrier Layer UAT 04X 152K C148 404000070 Barrier Layer UAT 04X 152K C149 4020000630 Cylinder UP050 B 101K C150 404000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C152 4040000260 Barrier Layer UAT 08X 473M C153 4040000260 Barrier Layer UZE 08X 104M	
C148 404000070 Barrier Layer UAT 04X 102K C149 402000630 Cylinder UP050 B 101K C150 404000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 08X 473M C152 4040000260 Barrier Layer UZE 08X 104M C153 4040000260 Barrier Layer UZE 08X 104M	
C149 402000630 Cylinder UP050 B 101K C150 404000070 Barrier Layer UAT 04X 102K C151 4040000250 Barrier Layer UAT 04X 102K C152 4040000260 Barrier Layer UAT 08X 473M C152 4040000260 Barrier Layer UZE 08X 104M C153 4040000260 Barrier Layer UZE 08X 104M	
C150 404000070 Barrier Layer UAT 04X 102K C151 404000250 Barrier Layer UAT 08X 473M C152 404000260 Barrier Layer UZE 08X 104M C153 404000260 Barrier Layer UZE 08X 104M	
C151 4040000250 Barrier Layer UAT 08X 473M C152 4040000260 Barrier Layer UZE 08X 104M C153 4040000260 Barrier Layer UZE 08X 104M	
C153 4040000260 Barrier Layer UZE 08X 104M	
C154 4010000520 Ceramic DD108 B 472K 50V	
C155 4040000090 Barrier Layer UAT 04X 152K	
C156 4040000110 Barrier Layer UAT 04X 222K	
C157 4010000410 Ceramic DD107 SL 331J 50V	
C158 4010000520 Ceramic DD108 B 472K 50V C159 4040000080 Barrier Layer UAT 04X 122K	
C160 4010000360 Ceramic DD106 SL 181J 50V	
C161 4040000080 Barrier Layer UAT 04X 122K	
C162 4040000110 Barrier Layer UAT 04X 222K	
C163 4040000210 Barrier Layer UAT 06X 153K C164 4040000080 Barrier Layer UAT 04X 122K	
C165 4040000250 Barrier Layer UAT 08X 473M	
C166 4010000520 Ceramic DD108 B 472K 50V	
C167 4010000440 Ceramic DD109 SL 511J 50V	
C168 4010000330 Ceramic DD105 SL 101J 50V C169 4010000430 Ceramic DD109 SL 471J 50V	
C170 4040000080 Barrier Layer UAT 04X 122K	
C171 4040000160 Barrier Layer UAT 05X 562K	
C172 4040000460 Barrier Layer RAU 08SA 821K	
C173 4040000250 Barrier Layer UAT 08X 473M C174 4010000520 Ceramic DD108 B 472K 50V	
C175 4010000410 Ceramic DD107 SL 331J 50V	
C176 4010000270 Ceramic DD104 SL 510J 50V	
C177 4010000410 Ceramic DD107 SL 331J 50V C178 4010000410 Ceramic DD107 SL 331J 50V	
C179 4040000120 Barrier Layer UAT 05X 272K	
C180 4010000410 Ceramic DD107 SL 331J 50V	
C181 4040000250 Barrier Layer UAT 08X 473M	
C182 4010000520 Ceramic DD108 B 472K 50V C183 4010000410 Ceramic DD107 SL 331J 50V	
C183 4010000410 Ceramic DD107 SL 331J 50V C184 4010000260 Ceramic DD104 SL 470J 50V	
C185 4010000380 Ceramic DD107 SL 221J 50V	
C186 4010000380 Ceramic DD107 SL 221J 50V	
C187 4040000100 Barrier Layer UAT 04X 182K	
C188 4010000370 Ceramic DD106 SL 201J 50V C189 4040000250 Barrier Layer UAT 08X 473M	
C190 4010000520 Ceramic DD108 B 472K 50V	
C191 4010000380 Ceramic DD107 SL 221J 50V	
C192 4010000160 Ceramic DD104 SL 180J 50V C193 4010000330 Ceramic DD105 SL 101J 50V	
C193 4010000330 Ceramic DD105 SL 1013 500 C194 4010000380 Ceramic DD107 SL 221J 500	
C195 4040000080 Barrier Layer UAT 04X 122K	
C196 4010000350 Ceramic DD106 SL 151J 50V	
C197 4040000250 Barrier Layer UAT 08X 473M C198 4010000520 Ceramic DD108 B 472K 50V	
C198 4010000520 Ceramic DD108 B 472K 50V C199 4010000220 Ceramic DD104 SL 330J 50V	
C200 4010000340 Ceramic DD105 SL 121J 50V	
C201 4010000240 Ceramic DD104 SL 390J 50V	
C202 4010000300 Ceramic DD104 SL 680J 50V C203 4010000340 Ceramic DD105 SL 121J 50V	
C203 4010000340 Ceranic DD105 SE 1215 50V	
C205 4010000330 Ceramic DD105 SL 101J 50V	
C206 4040000250 Barrier Layer UAT 08X 473M	
C207 4010000520 Ceramic DD108 B 472K 50V C208 4530000350 Capacitor Array B8ZC0111-32N	
C209 4010000520 Ceramic DD108 B 472K 50V	
C210 4510002380 Electrolytic 16 SS 470 μF (10X12	5)

8 — 6

REF.	ORDER		
NO.	NO.		ESCRIPTION
C211	4040000260	Barrier Layer	UZE 08X 104M
C212 C213	4510003040	Electrolytic Electrolytic	16 SS 100 μF 16 MS16 1000 μF
			(12.5X16)
C214 C215	4510002640	Electrolytic Electrolytic	25 SS 47 μF 10 SS 100 μF
C216	4040000250	Barrier Layer	UAT 08X 473M
C217	4510001140	Electrolytic	50 MS7 R22 μF
C218 C219	4510002730 4040000110	Electrolytic Barrier Layer	10 SS 100 μF UAT 04X 222K
C220	4310000060	Mylar	F2D 50V 223K
C221 C222	4510001100 4510002640	Electrolytic Electrolytic	16 MS7 10 μF 25 SS 47 μF
C222	4510002040	Electrolytic	50 MS7 2R2 μF
C224	4040000150	Barrier Layer	UAT 05X 472K
C225 C226	4510001150 4040000210	Electrolytic Barrier Laver	50 MS7 R47 μF UAT 06X 153K
C227	4010000520	Ceramic	DD108 B 472K 50V
C228	4040000150	Barrier Layer	UAT 05X 472K
C229 C230	4040000150 4010000840	Barrier Layer	UAT 05X 472K DD105 CH 390J 50V
C231	4010001020	Ceramic	DD111 CH 221J 50V
C232 C233	4010001020	Ceramic Ceramic	DD111 CH 221J 50V DD108 B 472K 50V
C233	4010000520	Ceramic	DD108 B 472K 50V
C235	4010000520	Ceramic	DD108 B 472K 50V
C236 C237	4040000250 4010000180	Barrier Layer	UAT 08X 473M DD104 SL 220J 50V
C238	4010000520	Ceramic	DD108 B 472K 50V
C239	4010000520	Ceramic	DD108 B 472K 50V
C240 C241	4010000520	Ceramic Ceramic	DD108 B 472K 50V DD104 SL 330J 50V
C242	4310000060	Mylar	F2D 50V 223K
C243	4310000060	Mylar	F2D 50V 223K F2D 50V 223K
C244 C245	4310000060 4510001100	Mylar Electrolytic	16 MS7 10 μF
C246	4510002850	Electrolytic	25 SS 22 μF
C247 C248	4040000150 4510002640	Barrier Layer	UAT 05Χ 472Κ 25 SS 47 μF
C240	4510001160	Electrolytic	50 MS7 1 μF
C250	4510001170	Electrolytic	50 MS7 2R2 μF
C251 C252	4510001160	Electrolytic Electrolytic	50 MS7 1μF 50 MS7 1μF
C253	4010000520	Ceramic	DD108 B 472K 50V
C254 C255	4010000520	Ceramic Ceramic	DD108 B 472K 50V DD108 B 472K 50V
C255	4010000520	Ceramic	DD108 B 472K 50V
C257	4010000520	Ceramic	DD108 B 472K 50V
C258 C259	4010000330 4010000520	Ceramic Ceramic	DD105 SL 101J 50V DD108 B 472K 50V
C259	4040000260	Barrier Layer	UZE 08X 104M
C261	4510001100	Electrolytic	16 MS7 10 μF
C262 C263	4040000250 4010000500	Barrier Layer Ceramic	UAT 08X 473M DD104 B 102K 50V
C264	4510001160	Electrolytic	50 MS7 1 μF
C265	4040000190	Barrier Layer	UAT 05X 103K UAT 05X 103K
C266 C267	4040000190 4510001150	Barrier Layer Electrolytic	50 MS7 R47 µF
C268	4510001150	Electrolytic	50 MS7 R47 µF
C269 C270	4510002440 4040000260	Electrolytic Barrier Layer	16 SS 220 μF (8X11) UZE 08X 104M
C270	4510002810	Electrolytic	16 SS 47 μF
C272	4530000350	Capacitor Array	B8ZC0111-32N
C273 C274	4510001160 4010000460	Electrolytic Ceramic	50 MS7 1 μF DD104 B 471K 50V
C275	4010000520	Ceramic	DD108 B 472K 50V
C276	4510001770	Electrolytic	16 RBP 10 μF
C277 C278	4510002740 4510001190	Electrolytic Electrolytic	10 SS 220 μF 50 MS7 4R7 μF
C279	4040000150	Barrier Layer	UAT 05X 472K
C280 C281	4040000150 4010000240	Barrier Layer Ceramic	UAT 05X 472K DD104 SL 390J 50V
C281 C282	4010000240	Ceramic	DD104 SL 3903 50V
C283	4510001150	Electrolytic	50 MS7 R47 μF
C284	4010000520	Ceramic	DD108 B 472K 50V

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
C285	4010000520	Ceramic	DD108 B 472K 50V
C286	4010000520	Ceramic	DD108 B 472K 50V
C287	4010000520	Ceramic	DD108 B 472K 50V
C288	4010000520	Ceramic	DD108 B 472K 50V
C289	4010000520	Ceramic	DD108 B 472K 50V
C290	4010000520	Ceramic	DD108 B 472K 50V
C291	4010000430	Ceramic	DD109 SL 471J 50V
C292	4010000520	Ceramic	DD108 B 472K 50V
C293	4510001140	Electrolytic	50 MS7 R22 μF
C294	4610001200	Trimmer	CVSSE3001
C295	4010000500	Ceramic	DD104 B 102K 50V
C297	404000250	Barrier Layer	UAT 08X 473M
C298	4040000260	Barrier Layer	UZE 08X 104M
C299	4040000260	Barrier Layer	UZE 08X 104M
C300	4040000250	Barrier Layer	UAT 08X 473M
C301	4010000520	Ceramic	DD108 B 472K 50V
RL1 RL2	6330000180 6330000560	Relay Relay	MZ-12HG OUC-SH-114D
S2	2230000700	Switch	SPPJ31309A [BK IN]
SO1	6510006640	Switch	50864-1
EP1	0910019635	P.C. Board	B 1788E

[PLL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1130000670	IC	μPD4071BC
1C2	1130000970	10	μPD4030BC
1C3	1130003870	IC	GD4001B
1C4	1130001270	IC	μPD4069UBC
1C5	1130003890	IC	GD4024B
1C6	1110000240	IC	BA222-V
107	1110001680	IC	S-8054ALB
1C8	1140000910	IC	HD63A01Y0G83P
1C9	1120000970	IC	M54562P
IC10	1180000340	IC	TA78005AP
IC11	1130001360	IC	TC4021BP
IC12	1130003860	IC	MB4052M-G
IC13	1130002960	IC	TC9181P
IC14	1120001620	IC	M74ALS74AP
IC15	1120001620	IC	M74ALS74AP
IC16	1110001320	IC	μPC1037HA
IC17	1110001320	IC	μPC1037HA
Q1	1530000110	Transistor	2SC2458-GR
Q2	1530000110	Transistor	2SC2458-GR
Q3	1530000110	Transistor	2SC2458-GR
Q4	1530000110	Transistor	2SC2458-GR
Q5	1530000110	Transistor	2SC2458-GR
Q6	1530000110	Transistor	2SC2458-GR
Q7	1530000110	Transistor	2SC2458-GR
Q8	1530000110	Transistor	2SC2458-GR
Q9	1530000110	Transistor	2SC2458-GR
Q10	1530000110	Transistor	2SC2458-GR
Q11	1530000110	Transistor	2SC2458-GR
Q12	1530000940	Transistor	2SC1571G
Q13	1530000110	Transistor	2SC2458-GR
Q14	1530000110	Transistor	2SC2458-GR

			· · · · ·		<u></u>
	REF. NO.	ORDER NO.		DESCRIPTION	RE
	Q15	156000090	FET	2SK192A-GR	D55
	Q16	1530000110	Transistor	2SC2458-GR	D56
	Q17	156000090	FET	2SK192A-GR	D60
	Q18 Q19	1530000110	Transistor FET	2SC2458-GR 2SK192A-GR	D62
	Q20	1530000110	Transistor	2SC2458-GR	D65
	Q21	1560000090	FET	2SK192A-GR	
	Q22	1530000110	Transistor	2SC2458-GR	
	Q23	1530000150	Transistor	2SC2668-O	X1
Į	Q24	1530000150	Transistor	2SC2668-O	X2
	Q25 Q26	1590000340 1530000150	Transistor Transistor	RN1202 2SC2668-0	
Į	Q28 Q27	1530000150	Transistor	2SC2668-0	
	Q29	1560000090	FET	2SK192A-GR	
	Q30	1530000150	Transistor	2SC2668-O	L3
	Q31	1590000360	Transistor	RN2202	L4
	Q32	1530000100	Transistor	2SC2458-Y	L5
	Q33	1530000110	Transistor	2SC2458-GR 2SC2668-O	L6
	Q34 Q35	1530000150 1590000340	Transistor Transistor	RN1202	
	Q36	1530000150	Transistor	2SC2668-0	1 1.9
	Q37	151000080	Transistor	2SA1048-GR	L10
		-			L11
					L12
	D1	1710000160	Diode	155133	L13
	D3	1710000160	Diode	1SS133	L14
	D4 D5	1710000160	Diode Diode	1SS133 1SS133	L15
	D5 D8	1710000160	Diode	1SS133	L17
	D9	1710000160	Diode	199133	L18
	D10	1730000100	Zener	RD5.1E B2	L19
1	D11	1710000160	Diode	1SS133	∟20
5	D12	1710000160	Diode	158133	1_22
	D13	1710000160	Diode	155133	L23
	D14 D15	1710000160	Diode Diode	1SS133 1SS133	L24
	D15 D16	1710000160	Diode	1SS133	L26
	D17	1710000160	Diode	155133	
	D18	1710000160	Diode	158133	L28
	D19	1710000160	Diode	1SS133	L29
	D20	1710000160	Diode	1SS133	L30
	D21	1710000160	Diode	1SS133	L31
	D22 D23	1710000160	Diode Diode	1SS133 1SS133	L32
	D23 D24	1710000160	Diode	188133	L34
	D25	1710000160	Diode	155133	L35
	D26	1710000160	Diode	1SS133	L36
	D27	1710000160	Diode	188133	L37
	D28	1710000160	Diode	188133	L38
	D29 D30	1710000050 1710000050	Diode Diode	1SS53 1SS53	L39
	D30 D31	1710000050	Diode	1SS53	L41
	D32	1710000050	Diode	1SS53	L42
	D33	1710000050	Diode	1SS53	L43
	D34	1710000050	Diode	1SS53	L44
	D35	1710000160	Diode	188133	L45
	D36	1710000160	Diode	1SS133	L46
	D37 D38	1710000160	Diode Diode	1SS133 1SS133	L47
	D38 D39	1710000160	Diode	1SS133	L40
	D40	1710000160	Diode	155133	L50
	D41	1710000160	Diode	1SS133	L51
	D42	1710000160	Diode	1SS133	
	D43	1710000040	Diode	1\$953	
	D44	1710000050	Diode	1SS53	R1
	D45	1710000160 1710000160	Diode Diode	1SS133 1SS133	R2 R3
	D46 D47	1710000160	Diode	155133	R4
	D47 D48	1720000050	Varicap	1SV50E	R5
	D49	1710000050	Diode	1SS53	R6
ļ	D50	1720000050	Varicap	1SV50E	R7
	D51	1710000050	Diode	18853	R8
	D52	1720000050	Varicap	1SV50E	R9
	D53	1710000050	Diode	1SS53 1SV50E	R10
	D54	1720000050	Varicap	1SV50E	

[PLL_UNIT]

REF. NO.	ORDER NO.	C	DESCRIPTION
D55	1710000050	Diode	1SS53
D56	1720000050	Varicap	1SV50E
D60	1710000160	Diode	1SS133
D62	1710000160	Diode	1SS133
D64	1710000160	Diode	1SS133 1SS53
D65	1710000050	Diode	19999
X1	6060000120	Crystal	CSA4.91MG
X2	6050001520	Crystal	CR-21
L1	6180000880	Coil	LAL 03NA 100K
L2	6140000580	Coll	LR-79
L3	6130000990	Coil	LB-135
L4 L5	6170000180 6140000580	Coil Coil	LW-19 LR-79
L5 L6	6130000990	Coil	LB-135
L7	6170000180	Coil	LW-19
L8	6140000580	Coil	LR-79
L9	6130000990	Coil	LB-135
L10 L11	6170000180 . 6140000580	Coil Coil	LW-19 LR-79
L11	6130000990	Coil	LB-135
L13	6170000180	Coil	LW-19
L14	6180000900	Coil	LAL 03NA 101K
L15	6180000900	Coil	LAL 03NA 101K
L16 L17	6180000740 6110001560	Coil Coil	LAL 03NA R56M LA-236
L17 L18	6110001560	Coil	LA-236
L19	6110001550	Coil	LA-235
L20	6180000900	Coil	LAL 03NA 101K
L22	6180000880	Coil	LAL 03NA 100K
L23	6180000720	Coil	LAL 03NA R39M
L24 L25	6180000700 6180000690	Coil Coil	LAL 03NA R27M LAL 03NA R22M
L25 L26	6180000960	Coil	LAL 03NA 102K
L27	6180000900	Coil	LAL 03NA 101K
L28	6180000900	Coil	LAL 03NA 101K
L29	618000900	Coil	LAL 03NA 101K
L30 L31	6110001650 6170000180	Coil Coil	LA-248 LW-19
L32	6180000850	Coil	LAL 03NA 4R7K
L33	6910000670	Coil	BT01RN1-A61-001
L34	6170000180	Coil	LW-19
L35	6150000760	Coil	LS-94
L36 L37	6180000900 6180000900	Coil Coil	LAL 03NA 101K LAL 03NA 101K
L37 L38	6150000990	Coil	LS-114
L39	6150000990	Coil	LS-114
L40	6910000670	Coil	BT01RN1-A61-001
L41	6110001640	Coil	LA-247
L42	6180000880 6180000900	Coil Coil	LAL 03NA 100K LAL 03NA 101K
L43 L44	6180000900	Coil	BT01RN1-A61-001
L44	6180000960	Coil	LAL 03NA 102K
L46	6910000670	Coil	BT01RN1-A61-001
L47	6180000900	Coil	LAL 03NA 101K
L48	6180000960	Coil	LAL 03NA 102K
L49 L50	6110001560 6180000960	Coil Coil	LA-236 LAL 03NA 102K
L50 L51	6180000960	Coil	LAL 03NA 102K
R1	7010003780	Resistor	ELR20J 1 MΩ
R2	7010003550	Resistor	ELR20J 15 kΩ
R3	7010004320	Resistor	R20J 10 kΩ -
R4	7010003810	Resistor	ELR20J 2.2 MΩ
R5 R6	7010003780 7010003550	Resistor Resistor	ELR20J 1 MΩ ELR20J 15 kΩ
R7	7010003350	Resistor	R25J 100 kΩ
R8	7010003700	Resistor	ELR20J 220 kΩ
R9	7010003660	Resistor	ELR20J 100 kΩ
R10	7010003700	Resistor	ELR20J 220 kΩ
R11	7010003660	Resistor	ELR20J 100 kΩ

[PLL UNIT]

REF. NO.	ORDER NO.	DI	ESCRIPTION		REF. NO.	ORDER NO.		DESCRIPTION
R12	7010003660	Resistor	ELR20J 100 kΩ	R	37	7010003310	Resistor	ELR20J 180 Ω
R13	7010004320	Resistor	R20J 10 kΩ	R		7010003660	Resistor	ELR20J 100 kΩ
R14	7010001280	Resistor	R25J 10 kΩ	R		7010003660	Resistor	ELR20J 100 kΩ
R15	7010004210	Resistor	R20J 1.5 kΩ	R		7010003310	Resistor	ELR20J 180 Ω R20J 150 Ω
R16	7010003530	Resistor	ELR20J 10 kΩ	R9 R9		7010004090 7010004250	Resistor Resistor	R20J 3.3 kΩ
R17	7010003620	Resistor	ELR20J 47 kΩ R20J 100 kΩ	R		7010004250	Resistor	R20J 150 Ω
R18 R19	7010004450 7010003620	Resistor Resistor	ELR20J 47 kΩ	R		7010004250	Resistor	R20J 3.3 kΩ
R20	7010003620	Resistor	ELR20J 47 k Ω	R		7010003300	Resistor	ELR20J 150 Ω
R21	7010004320	Resistor	R20J 10 kΩ	R		7010004250	Resistor	R20J 3.3 kΩ
R22	7010003620	Resistor	ELR20J 47 kΩ	R	97	7010003300	Resistor	ELR20J 150 Ω
R23	7010003400	Resistor	ELR20J 1 kΩ	R		7010003460	Resistor	ELR20J 3.3 kΩ
R24	7010003400	Resistor	ELR20J 1 kΩ	RS		7010003780	Resistor	ELR20J 1 MΩ
R25	7010003400	Resistor	ELR20J 1 kΩ		100	7010003780	Resistor	ELR20J 1 MΩ ELR20J 470 Ω
R26	7010003400	Resistor	ELR20J 1 kΩ ELR20J 1 kΩ		101 102	7010003360 7010003530	Resistor Resistor	ELR20J 10 kΩ
R27	7010003400 7010003400	Resistor Resistor	ELR20J 1 k Ω		102	7010000990	Resistor	R25J 47 Ω
R28 R29	7010003400	Resistor	R25J 1 kΩ	1	104	7010003480	Resistor	ELR20J 4.7 kΩ
R30	7010001150	Resistor	R25J 1 kΩ		105	7010004110	Resistor	R20J 220 Ω
R31	7010001150	Resistor	R25J 1 kΩ		106	7010003340	Resistor	ELR20J 330 Ω
R32	7010001150	Resistor	R25J 1 kΩ	R	107	7010003990	Resistor	R20J 22 Ω
R33	7010001150	Resistor	R25J 1 kΩ		108	7010003530	Resistor	ELR20J 10 kΩ
R34	7010001150	Resistor	R25J 1 kΩ		109	7010003580	Resistor	ELR20J 22 kΩ
R35	7010005230	Resistor	ELR20J 750 Ω		110	7010004070	Resistor	R20J 100 Ω ELR20J 22 Ω
R36	7010003430	Resistor	ELR20J 1.8 kΩ		111	7010003200 7010003320	Resistor Resistor	ELR20J 220 Ω
R37	7010003460 7010003490	Resistor Resistor	ELR20J 3.3 kΩ ELR20J 5.6 kΩ		112 113	7010003330	Resistor	ELR20J 270 Ω
R38 R39	7010003530	Resistor	ELR20J 10 kΩ		114	7010003980	Resistor	R20J 18 Ω
R40	7010003480	Resistor	ELR20J 4.7 kΩ		115	7010003330	Resistor	ELR20J 270 Ω
R41	7010004190	Resistor	R20J 1 kΩ		116	7010001150	Resistor	R25J 1 kΩ
R42	7010004190	Resistor	R20J 1 kΩ	R	117	7010001150	Resistor	R25J 1 kΩ
R43	7010001150	Resistor	R25J 1 kΩ	R	118	7010004190	Resistor	R20J 1 kΩ
R44	7010001150	Resistor	R25J 1 kΩ		119	7010001070	Resistor	R25J 220 Ω
R45	7010001150	Resistor	R25J 1 kΩ		121	7010003480	Resistor	ELR20J 4.7 kΩ
R46	7010001150	Resistor	R25J 1 kΩ		123	7010003280 7010004150	Resistor Resistor	ELR20J 100 Ω R20J 470 Ω
R47	7010001150	Resistor Resistor	R25J 1 kΩ R25J 1 kΩ		124 125	7010003620	Resistor	ELR20J 47 kΩ
R48 R49	7010001150 7010004670	Resistor	R50XJ 22 Ω		126	7010003420	Resistor	ELR20J 1.5 kΩ
R50	7010003530	Resistor	ELR20J 10 kΩ		127	7010004110	Resistor	R20J 220 Ω
R51	7010003240	Resistor	ELR20J 47 Ω		128	7010003360	Resistor	ELR20J 470 Ω
R52	7010003660	Resistor	ELR20J 100 kΩ	R	129	7010004110	Resistor	R20J 220 Ω
R53	7010003530	Resistor	ELR20J 10 kΩ		130	7010001150	Resistor	R25J 1 kΩ
R54	7010004030	Resistor	R20J 47 Ω		131	7010004190	Resistor	R20J 1 kΩ
R55	7010003480	Resistor	ELR20J 4.7 kΩ		132	7010004190	Resistor	R20J 1 kΩ R25J 4.7 kΩ
R56	7010003440	Resistor	ELR20J 2.2 kΩ		133 134	7010001230 7010003160	Resistor Resistor	ELR20J 10 Ω
R57	7010003620 7010003620	Resistor Resistor	ELR20J 47 kΩ ELR20J 47 kΩ		136	7010003580	Resistor	ELR20J 22 kΩ
R58 R59	7010003820	Resistor	R20J 47 kΩ		137	7010003660	Resistor	ELR20J 100 kΩ
R60	7010001400	Resistor	R25J 100 kΩ		138	7010004090	Resistor	R20J 150 Ω
R61	7010004410	Resistor	R20J 47 kΩ		139	7010003440	Resistor	ELR20J 2.2 kΩ
R62	7010004410	Resistor	R20J 47 kΩ	R	140	7010003530	Resistor	ELR20J 10 kΩ
R63	7010004410	Resistor	R20J 47 kΩ		141	7010003480	Resistor	ELR20J 4.7 kΩ
R64	7010004410	Resistor	R20J 47 kΩ		142	7010003340	Resistor	ELR20J 330 Ω
R65	7010001360	Resistor	R25J 47 kΩ		143	7010004110	Resistor	R20J 220 Ω ELR20J 100 Ω
R66	7410000180	Resistor Array	RMX-8 103K		144 145	7010003280 7010003240	Resistor Resistor	ELR20J 100 Ω ELR20J 47 Ω
R67 R68	7010003530 7010004410	Resistor Resistor	ELR20J 10 kΩ R20J 47 kΩ		145	7010003240	Resistor	ELR20J 100 Ω
R69	7010003640	Resistor	ELR20J 68 kΩ		147	7010003530	Resistor	ELR20J 10 kΩ
R70	7210001530		RK09K1110AEGA (RIT)		149	7010004070	Resistor	. R20J 100 Ω
R71	7010003460	Resistor	ELR20J 3.3 kΩ		150	7010004190	Resistor	R20J 1 kΩ
R72	7010004070	Resistor	R20J 100 Ω	R	151	7010003600	Resistor	ELR20J 33 kΩ
R73	7010004670	Resistor	R50XJ 22 Ω		152	7010003440	Resistor	ELR20J 2.2 kΩ
R74	7010003400	Resistor	ELR20J 1 kΩ		153	7010003280	Resistor	ELR20J 100 Ω
R75	7010003700	Resistor	ELR20J 220 kΩ		155	7010004190	Resistor	R20J 1 kΩ ELR20J 4.7 kΩ
R76	7010003440	Resistor	ELR20J 2.2 kΩ		156 157	7010003480 7010003550	Resistor Resistor	ELR20J 4.7 KΩ ELR20J 15 kΩ
R77	7010001150 7010003660	Resistor Resistor	R25J 1 kΩ ELR20J 100 kΩ		157	7010003350	Resistor	ELR20J 470 Ω
R78 R79	7010003660	Resistor	ELR20J 100 kΩ		159	7010003240	Resistor	ELR20J 47 Ω
R80	7010001060	Resistor	R25J 180 Ω		160	7010003320	Resistor	ELR20J 220 Ω
R81	7010004090	Resistor	R20J 150 Ω		161	7010003530	Resistor	ELR20J 10 kΩ
R82	7010003660	Resistor	ELR20J 100 kΩ		162	7010003410	Resistor	ELR20J 1.2 kΩ
R83	7010003660	Resistor	ELR20J 100 kΩ		163	7010003530	Resistor	ELR20J 10 kΩ
R84	7010003310	Resistor	ELR20J 180 Ω		164	7010004370	Resistor	R20J 22 kΩ
R85	7010003660	Resistor	ELR20J 100 kΩ		165	7010003300	Resistor	ELR20J 150 Ω R25J 100 Ω
R86	7010004450	Resistor	R20J 100 kΩ		166	7010001030	Resistor	112.00 100 12

C58

C59

4010000700

4610001000

Ceramic

Trimmer

ORDER REF. DESCRIPTION NO NO. R167 7010003530 Resistor ELR20J 10 kΩ R168 7010003530 Resistor ELR20J 10 kΩ 7010003530 ELB20.1 10 kO **R169** Resistor R170 7010003530 Resistor ELR20J 10 kΩ R171 7010003620 ELR20J 47 kΩ Resistor R172 7010004410 Resistor R20J 47 kΩ 7010004150 R20J 470 Ω Resistor **R173 R174** 7010004320 Resistor R20J 10 kΩ R175 7010004190 Resistor R20J 1 kΩ R176 7010003360 Resistor ELR20J 470 Ω ELR20J 470 Ω R177 7010003360 Resistor 7010003360 ELR20J 470 Ω R178 Resistor R179 7010003400 Resistor ELR20J 1 kΩ R180 7010003460 Resistor ELR20J 3.3 kΩ R181 7010003760 Resistor ELR20J 680 kΩ 7010004320 Resistor B20J 10 kO R182 C1 4010000500 Ceramic DD104 B 102K 50V C2 4010000500 DD104 B 102K 50V Ceramic 50 MS7 R47 µF 4510001150 СЗ Electrolytic C4 DD108 B 472K 50V 4010000520 Ceramic C5 4010000500 Ceramic DD104 B 102K 50V 4010000500 DD104 B 102K 50V **C6** Ceramic UP050 B 102K **C8** 4020000400 Cvlinder F2D 50V 102K 4310000010 **C**9 Mylar C10 4510001100 Electrolytic 16 MS7 10 µF C11 4510001100 Electrolytic 16 MS7 10 µF 4550000350 DN 1V 010M C12 Tantalum 4550000400 Tantalum **DN 1C 2R2M** C13 C14 4040000260 **Barrier Layer** UZE 08X 104M C15 4010000810 Ceramic DD105 CH 300J 50V C16 4010000810 Ceramic DD105 CH 300J 50V C17 4550000400 **DN 1C 2R2M** Tantalum C18 4510002640 Electrolytic 25 SS 47 µF UZE 08X 104M C19 4040000260 **Barrier Laver** C20 4510003040 Electrolytic 16 SS 100 µF C21 4530000150 Capacitor Array B7ZC0711-32N C22 4010000520 DD108 B 472K 50V Ceramic 4530000270 C23 Capacitor Array B8XC0114-32N C24 4040000250 **Barrier Layer** UAT 08X 473M C25 4040000260 Barrier Layer UZE 08X 104M C26 4010000520 Ceramic DD108 B 472K 50V 4510003040 16 SS 100 µF C27 Electrolytic C28 4010000500 Ceramic DD104 B 102K 50V C29 4510001750 Electrolytic 50 RBP 2.2 µF 4010003460 DD104 UJ 330J 50V C31 Ceramic C32 4040000250 **Barrier Layer** UAT 08X 473M DD107 CH 101J 50V C33 4010000940 Ceramic C34 4010000770 Ceramic DD104 CH 200J 50V C35 4610001130 Trimmer CVSSA1001 C36 4010000900 Ceramic DD107 CH 680J 50V C37 4510002640 Electrolytic 25 SS 47 µF DD104 CH 120J 50V **C38** 4010000720 Ceramic C39 4010000720 Ceramic DD104 CH 120J 50V C40 4010000520 DD108 B 472K 50V Ceramic C41 4010000520 Ceramic DD108 B 472K 50V C42 4010000020 DD104 SL 010C 50V Ceramic C43 4010000500 Ceramic DD104 B 102K 50V C44 4010000900 Ceramic DD107 CH 680J 50V C45 4010000740 Ceramic DD104 CH 150J 50V CVSSA1001 C46 4610001130 Trimmer DD106 CH 470J 50V C47 4010000860 Ceramic C48 4510002640 Electrolytic 25 SS 47 µF C49 4010000720 Ceramic DD104 CH 120J 50V C50 4010000720 Ceramic DD104 CH 120J 50V C51 4010000520 Ceramic DD108 B 472K 50V C52 4010000520 Ceramic DD108 B 472K 50V C53 4010000020 Ceramic DD104 SL 010C 50V C54 4010000260 Ceramic DD104 SL 470J 50V C55 4010000270 Ceramic DD104 SL 510J 50V 4010000500 DD104 B 102K 50V C56 Ceramic C57 4010000870 Ceramic DD106 CH 510J 50V

[PLL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
C60	4010000860	Ceramic	DD106 CH 470J 50V
C61	4510002640	Electrolytic	25 SS 47 μF
C62 C63	4010000680	Ceramic Ceramic	DD104 CH 080D 50V DD104 CH 120J 50V
C64	4010000720	Ceramic	DD104 CH 1203 50V DD108 B 472K 50V
C65	4010000520	Ceramic	DD108 B 472K 50V
C66	4010000020	Ceramic	DD104 SL 010C 50V
C67	4010000500	Ceramic	DD104 B 102K 50V
C68	4010000860	Ceramic	DD106 CH 470J 50V
C69 C70	4010000630	Ceramic Trimmer	DD104 CJ 030C 50V CVSSA0701
C71	4010000820	Ceramic	DD105 CH 330J 50V
C72	4510002640	Electrolytic	25 SS 47 μF
C73	4010000660	Ceramic	DD104 CH 060D 50V
C74	4010000720	Ceramic	DD104 CH 120J 50V DD108 B 472K 50V
C75 C76	4010000520	Ceramic Barrier Layer	UZE 08X 104M
C77	4510003040	Electrolytic	16 SS 100 µF
C78	4010000520	Ceramic	DD108 B 472K 50V
C79	401000020	Ceramic	DD104 SL 010C 50V
C80	4010000500	Ceramic	DD104 B 102K 50V
C81 C82	4010000260	Ceramic Barrier Laver	DD104 SL 470J 50V UAT 05X 472K
C82	4010000150	Ceramic	DD104 B 471K 50V
C84	4040000250	Barrier Layer	UAT 08X 473M
C85	4010000380	Ceramic	DD107 SL 221J 50V
C86	4010000500	Ceramic	DD104 B 102K 50V
C87	4010000240	Ceramic	DD104 SL 390J 50V DD104 SL 150J 50V
C88 C89	4010000150 4010000240	Ceramic Ceramic	DD104 SL 190J 50V DD104 SL 390J 50V
C90	4010000160	Ceramic	DD104 SL 180J 50V
C91	4010000200	Ceramic	DD104 SL 270J 50V
C92	4010000230	Ceramic	DD104 SL 360J 50V
C93	4010000180	Ceramic	DD104 SL 220J 50V
C94 C95	4010000120 4040000150	Ceramic Barrier Layer	DD104 SL 100D 50V UAT 05X 472K
C96	4010000520	Ceramic	DD108 B 472K 50V
C97	4040000150	Barrier Layer	UAT 05X 472K
C98	4010000520	Ceramic	DD108 B 472K 50V
C99	4010000300	Ceramic	DD104 SL 680J 50V
C100 C101	401000080 4010000320	Ceramic Ceramic	DD104 SL 060D 50V DD104 SL 820J 50V
C101	4010000160	Ceramic	DD104 SL 180J 50V
C103	4010000310	Ceramic	DD104 SL 750J 50V
C104	4010000520	Ceramic	DD108 B 472K 50V
C105	404000260	Barrier Layer	UZE 08X 104M
C106 C107	4010000520 4040000250	Ceramic Barrier Layer	DD108 B 472K 50V UAT 08X 473M
C107	4010000520	Ceramic	DD108 B 472K 50V
C109	4010000460	Ceramic	DD104 B 471K 50V
C110	4010000210	Ceramic	DD104 SL 300J 50V
C111	4010000410	Ceramic	DD107 SL 331J 50V
C112	4010000520	Ceramic	DD108 B 472K 50V
C113 C114	4040000260 4550000400	Barrier Layer Tantalum	UZE 08X 104M DN 1C 2R2M
C114 C115	4010000520	Ceramic	DD108 B 472K 50V
C116	4010000740	Ceramic	DD104 CH 150J 50V
C117	4010000810	Ceramic	DD105 CH 300J 50V
C118	4010000900	Ceramic	DD107 CH 680J 50V
C119 C120	4010000720 4010000720	Ceramic Ceramic	DD104 CH 120J 50V DD104 CH 120J 50V
C120	4040000120	Barrier Layer	UAT 05X 472K
C122	4510001100	Electrolytic	16 MS7 10 μF
C123	4010000500	Ceramic	DD104 B 102K 50V
C124	4010000520	Ceramic	DD108 B 472K 50V
C125 C126	4010000520 4010000380	Ceramic Ceramic	DD108 B 472K 50V DD107 SL 221J 50V
C126 C127	404000260	Barrier Layer	UZE 08X 104M
C128	4040000260	Barrier Layer	UZE 08X 104M
C129	4010000520	Ceramic	DD108 B 472K 50V
C130	4020000400	Cylinder	UP050 B 102K
C131	4040000260	Barrier Layer	UZE 08X 104M
C132 C133	4510002640 4010000270	Electrolytic Ceramic	25 SS 47 μF DD104 SL 510J 50V
C133	4610000270	Trimmer	CVSSC2001

DD104 CH 100D 50V

CVSSA0701

REF. NO.	ORDER NO.	D	ESCRIPTION
C135	4010003100	Ceramic	DD106 TH 820J 50V
C136	4010000520	Ceramic	DD108 B 472K 50V
C137	4010000520	Ceramic	DD108 B 472K 50V
C138	4010003100	Ceramic	DD106 TH 820J 50V
C139	4550000320	Tantalum	DN 1V OR1M
C140	4040000150	Barrier Layer	UAT 05X 472K
C141	4010000500	Ceramic	DD104 B 102K 50V
C142	4010000500	Ceramic	DD104 B 102K 50V
C143	4010000500	Ceramic	DD104 B 102K 50V
C144	4010000380	Ceramic	DD107 SL 221J 50V
C145	4040000260	Barrier Layer	UZE 08X 104M
C146	4010000100	Ceramic	DD104 SL 080D 50V
C147	4010000520	Ceramic	DD108 B 472K 50V
C148	4010000010	Ceramic	DD104 SL 0R5C 50V
C149	4010000100	Ceramic	DD104 SL 080D 50V
C150	4010000520	Ceramic	DD108 B 472K 50V
C151	4040000260	Barrier Layer	UZE 08X 104M
C152	4040000260	Barrier Layer	UZE 08X 104M
C153	4510000310	Electrolytic	16 MS16 1000 μF
			(12.5X16)
C154	4040000190	Barrier Layer	UAT 05X 103K
C155	4040000190	Barrier Layer	UAT 05X 103K
C156	4040000190	Barrier Layer	UAT 05X 103K
C157	4010000520	Ceramic	DD108 B 472K 50V
C158	4010000520	Ceramic	DD108 B 472K 50V
C159	4010000520	Ceramic	DD108 B 472K 50V
C160	4020000180	Cylinder	UP125 B 471K
C161	4040000190	Barrier Layer	UAT 05X 103K
C162	4010000210	Ceramic	DD104 SL 300J 50V
C163	4010000180	Ceramic	DD104 SL 220J 50V
C164	4010000210	Ceramic	DD104 SL 300J 50V
C165	4020000260	Cylinder	TP125 X 103M
C166	4040000250	Barrier Layer	UAT 08X 473M
C167	4040000250	Barrier Layer	UAT 08X 473M
C168	4040000250	Barrier Layer	UAT 08X 473M
BT1	3020000020	Lithium Battery	BR2032-1T2
EP1	6910000600	Ferrite Bead	FSOH050RN
EP2	0910019436	P.C. Board	B 1789F
	0010000		

[DDS UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1140000500	IC	SC1051
IC2	1130002600	IC	SC1052
IC3	1130002610	IC	SC1053
IC4	1130002460	IC	TC74HCT374F
IC5	1130002460	IC	TC74HCT374F
X1	6050003230	Crystal	CR-180
L1	620000040	Coil	LQN 5N 331K
1.2	620000040	Coil	LQN 5N 331K
L3	6200000040	Coil	LQN 5N 331K
D 4	700000740	Resistor	NOD105741 4 NO (105)
R1	7030000740	Resistor	MCR10EZHJ 1 MΩ (105) MCR10EZHJ 680 Ω (681)
R2 R3	7030000420	Resistor	
R4	7030000420	Resistor Array	MCR10EZHJ 2.2 kΩ (222) GF 5096
R5	7030000500	Resistor	MCR10EZHJ 10 kΩ (103)
R6	7030000500	Resistor	MCR10EZHJ 10 kΩ (103)
R7	7030000500	Resistor	MCR10EZHJ 10 kΩ (103)
TU I	1050000000	Tiesistol	WONTOLETIC TO KEE (100)

[DDS UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
C1	4610000520	Trimmer	TZB04N100BA006
C2	403000950	Ceramic	GRM40 CH 330J 50PT
C3	403000150	Ceramic	GRM40 F 104Z 25PT
C7	4030000720	Ceramic	GRM40 SL 680J 50PT
C8	4030000750	Ceramic	GRM40 SL 020C 50PT
C9	4030000750	Ceramic	GRM40 SL 121J 50PT
C10	4030000610	Ceramic	GRM40 SL 070D 50PT
C11	4030000750	Ceramic	GRM40 SL 121J 50PT
C12	403000640	Ceramic	GRM40 SL 120J 50PT
C13	403000720	Ceramic	GRM40 SL 680J 50PT
C14	4030001150	Ceramic	GRM40 F 104Z 25PT
C15	4030001150	Ceramic	GRM40 F 104Z 25PT
C16	4030001150	Ceramic	GRM40 F 104Z 25PT
C17	4030001150	Ceramic	GRM40 F 104Z 25PT
C18	4030002430	Ceramic	GRM40 F 104Z 25PT
C19	4030002430	Ceramic	GRM40 B 102K 50PT
C20	4030001100	Ceramic	GRM40 B 102K 50PT
EP1	0910022511	P.C. Board	B 2203A

[PA UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
Q1	1530000790	Transistor	2SC1971
Q2	1530000190	Transistor	2SC3133
Q3	1530000190	Transistor	2SC3133
Q4	1540000200	Transistor	2SD1406 Y
Q5	1530000200	Transistor	2SC2904
Q6	1530000200	Transistor	2SC2904
Q7	1520000060	Transistor	2SB562C
Q8	1590000340	Transistor	RN1202
Q9	1590000340	Transistor	RN1202
Q10	1590000360	Transistor	RN2202
D1	1790000010	Diode	MV5
D2	1790000010	Diode	MV5
D3	1790000010	Diode	MV5
D4	1710000010	Diode	15CD11
D5	171000030	Diode	181555
D6	171000030	Diode	1S1555
D7	1710000330	Diode	1K60
D8	1710000330	Diode	1K60
D9	171000030	Diode	1S1555 1S1555
D10 D11	1710000030 1710000030	Diode Diode	1S1555
D12	1710000030	Diode	181555
D12	1710000030	Diode	181555
D13	1710000030	Diode	181555
D14	1710000030	Diode	1S1555
015	171000000	Didde	101000
L1	6140001170	Coil	LR-142
L2	6910000670	Coil	BT01RN1-A61-001
L3	6910000670	Coil	BT01RN1-A61-001
L4 .	6140001300	Coil	LR-155
L5	6140000610	Coil	LR-83
L6	6140001310	Coil	LR-156
L7	6140001210	Coil	LR-146
L8	6180001230	Coil	LAL 04NA 8R2K
L9	6180001570	Coil	LAL 04NA 4R7K
L10	6910000670	Coil	BT01RN1-A61-001
L11	6910000670	Coil	BT01RN1-A61-001
L12	6180000880	Coil	LAL 03NA 100K
L13	6910000670	Coil	BT01RN1-A61-001
L14	6910000670	Coil	BT01RN1-A61-001
L15	6910000670	Coil	BT01RN1-A61-001

[PA UNIT]

L17 6180000900 Coil LAL 03NA 101K FR L18 618000900 Coil LAL 03NA 101K FR L26 614000110 Coil LR-137 Coil L27 6140001780 Coil LR-215 Coil L28 6140001780 Coil LR-216 Coil L30 6140001780 Coil LR-218 Coil Coil L31 6140001780 Coil LR-218 Coil Coil LR-218 Coil L33 6140001320 Coil LR-157 Coil Coil LA<197 Coil LR-157 Coil LR<138 Coil LA<03NA 101K	REF. NO.	ORDER NO.		DESCRIPTION	REN
Lis 6180000900 60ii LAL 03NA 101K L25 6140001120 6140001780 Coli LR-136 L27 6140001780 Coli LR-215 Coli L28 6140001780 Coli LR-215 Coli L29 6140001800 Coli LR-216 Coli L30 6140001800 Coli LR-217 Coli L32 6140001800 Coli LR-218 Coli L33 6140001320 Coli LA-197 Coli L34 6140001300 Coli LA-197 Coli LA<197	L16	6910000670	Coil	BT01RN1-A61-001	R40
L25 6140001110 Coil LP-138 L26 6140001780 Coil LR-137 Coil L29 6140001780 Coil LR-215 Coil L29 6140001780 Coil LR-216 Coil L30 6140001800 Coil LR-216 Coil L31 6140001820 Coil LR-157 Coil L34 6140001820 Coil LR-158 Coil L35 6110001500 Coil LA-196 Coil L36 610001500 Coil LA-196 Coil LA-198 L36 610001500 Coil LAL 03NA 101K Coil LA Coil LA<03NA 101K			1		R47
L26 6 140001780 Coil LR-137 Coil L27 6 140001780 Coil LR-214 Coil L28 6 140001780 Coil LR-215 Coil L30 6 140001800 Coil LR-216 Coil L31 6 140001820 Coil LR-218 Coil L32 6 140001820 Coil LR-158 Coil L33 6 140001320 Coil LA-196 Coil L34 6 140001320 Coil LA-197 Coil L35 6 110001500 Coil LA-197 Coil LA<198		1			
L27 6140001780 Coil LR-214 Coil L28 6140001780 Coil LR-215 Coil L30 6140001800 Coil LR-216 Coil L31 6140001820 Coil LR-216 Coil L31 6140001820 Coil LR-157 Coil L34 6140001830 Coil LA-196 Coil L35 6110001480 Coil LA-196 Coil L36 610001500 Coil LA-196 Coil LA-197 L37 618000900 Coil LAL 03NA 101K Coil LA Coil					C1
Lgs 6140001790 Coil LR-215 Coil LR-216 Coil L30 6140001800 Coil LR-216 Coil Coil LR-217 Coil L31 6140001800 Coil LR-217 Coil Coil LR-217 Coil L32 6140001320 Coil LR-157 Coil Coil LA1 Coil LA1 Sister Coil Coil LA1	1				
L30 6140001800 Coil LR-216 Coil L31 6140001820 Coil LR-217 Coil L32 6140001320 Coil LR-157 Coil L33 6140001320 Coil LR-157 Coil L34 6140001320 Coil LA-196 Coil L35 6110001400 Coil LA-197 Coil L36 6180006900 Coil LAL C3NA 101K Coil L41 6180006900 Coil LAL C3NA 101K Coil L42 6180006900 Coil LAL C3NA 101K Coil L43 6180006900 Coil LAL C3NA 101K Coil L43 6180006800 Coil LAL C3NA 100K Coil L44 6180006800 Coil LAL C3NA 100K Coil L43 6180006800 Coil LAL C3NA 100K Coil L44 6180006800 Coil LAL C3NA 100K Coil L47 6180006800 Coil <td></td> <td></td> <td></td> <td></td> <td>C3</td>					C3
		6140001800	Coil	LR-216	C4
L32 6140001820 Coil LR-218 Coil LR-218 Coil LR-157 Coil L34 6140001320 Coil LA-157 Coil Coil LA-196 Coil Coil Coil Coil LA-197 Coil Coil LA-197 Coil Coil LA-197 Coil LAL 03NA 101K Coil Coil LAL 03NA 100K Coil LAL 03NA 100K Coil Coil LAL 03NA 100K Coil Coil LAI 03NA 100K C					C5
L33 6140001320 Coil LR-157 Coil L34 6140001330 Coil LR-158 Coil L35 6110001500 Coil LA-196 Coil L36 6110001500 Coil LAL 03NA 101K Coil L37 618000800 Coil LAL 03NA 101K Coil L40 618000800 Coil LAL 03NA 101K Coil L41 618000800 Coil LAL 03NA 101K Coil L42 618000800 Coil LAL 03NA 101K Coil L43 618000880 Coil LAL 03NA 101K Coil L44 618000880 Coil LAL 03NA 100K Coil L46 618000880 Coil LAL 03NA 100K Coil L47 618000880 Coil LAL 03NA 100K Coil L48 618000880 Coil LAL 03NA 100K Coil L50 614000140 Coil LR-153 Coil L51 618000880 Coil					C6
L34 6140001330 Coll LR-158 Coll L35 6110001400 Coll LA-197 Coll L36 6110001500 Coll LA L03NA 101K Coll L38 6180000900 Coll LAL 03NA 101K Coll L39 6180000900 Coll LAL 03NA 101K Coll L40 6180000900 Coll LAL 03NA 101K Coll L41 6180000900 Coll LAL 03NA 101K Coll L42 6180000800 Coll LAL 03NA 101K Coll L43 6180000880 Coll LAL 03NA 100K Coll L44 6180000880 Coll LAL 03NA 100K Coll L43 6180000880 Coll LAL 03NA 100K Coll L44 6180000880 Coll LAL 03NA 100K Coll L43 6180000880 Coll LAL 03NA 100K Coll L44 6180000880 Coll LAL 03NA 100K Coll L45 6180000880 <td></td> <td></td> <td></td> <td></td> <td>C7 C8</td>					C7 C8
	1		1 ⁻		C1
L38 6180000900 Coil LAL 03NA 101K Coil L39 6180000900 Coil LAL 03NA 101K Coil L40 6180000900 Coil LAL 03NA 101K Coil L41 6180000900 Coil LAL 03NA 101K Coil L42 6180000900 Coil LAL 03NA 101K Coil L43 6180000800 Coil LAL 03NA 101K Coil L44 6180000880 Coil LAL 03NA 100K Coil L46 6180000880 Coil LAL 03NA 100K Coil L47 6180000880 Coil LAL 03NA 100K Coil L50 6140001460 Coil LAL 03NA 100K Coil L51 614000130 Resistor ELR25J 330 Ω Coil R2 7010001050 Resistor ELR25J 270 Ω Coil R3 7010004730 Resistor ELR25J 470 Ω Coil R4 7010004730 Resistor R25J 47 Ω Coil Coil	1		Coil	LA-197	C1 ⁻
L39 6180000900 Coil LAL 03NA 101K Coil L40 6180000900 Coil LAL 03NA 101K Coil L41 6180000900 Coil LAL 03NA 101K Coil L42 6180000900 Coil LAL 03NA 101K Coil L43 6180000900 Coil LAL 03NA 101K Coil L44 6180000800 Coil LAL 03NA 100K Coil L45 6180000800 Coil LAL 03NA 100K Coil L46 6180000800 Coil LAL 03NA 100K Coil L47 6180000800 Coil LAL 03NA 100K Coil L50 6140001460 Coil LR-170 Coil Coil L51 6140001400 Coil LR-163 Coil Coil Coil R1 7010000310 Resistor RL25J 150 Ω Coil Coil Coil R4 701000430 Resistor RL92J 70 Ω Coil Coil Coil Coil Coil <t< td=""><td>L37</td><td>6180000900</td><td>Coil</td><td>1</td><td>C1:</td></t<>	L37	6180000900	Coil	1	C1:
					C1:
L41 6180000900 Coil LAL 03NA 101K Coil L42 618000900 Coil LAL 03NA 101K Coil L43 618000900 Coil LAL 03NA 101K Coil L44 618000900 Coil LAL 03NA 100K Coil L45 618000800 Coil LAL 03NA 100K Coil L46 618000800 Coil LAL 03NA 100K Coil L48 618000800 Coil LAL 03NA 100K Coil L49 618000800 Coil LAL 03NA 100K Coil L50 6140001460 Coil LR-170 Coil L51 6140001300 Resistor ELR25J 330 Ω Coil R2 701000200 Resistor ELR25J 300 Ω Coil R3 701000200 Resistor ELR25J 300 Ω Coil R4 701000430 Resistor R25U 7 Ω Coil R6 701000430 Resistor R25U 47 Ω Coil R10 7010004630 <td>,</td> <td>1</td> <td>1</td> <td></td> <td>C14</td>	,	1	1		C14
L42 618000900 Coil LAL 03NA 101K Coil L43 618000900 Coil LAL 03NA 101K Coil L44 618000900 Coil LAL 03NA 101K Coil L45 618000980 Coil LAL 03NA 100K Coil L46 618000880 Coil LAL 03NA 100K Coil L47 618000880 Coil LAL 03NA 100K Coil L48 618000800 Coil LAL 03NA 100K Coil L50 614001460 Coil LR-170 Coil L51 6140001340 Coil LR-170 Coil L51 6140001340 Coil LR-170 Coil L51 6140001340 Resistor RE25J 150 Ω Coil R2 7010001050 Resistor RE25J 20 Ω Coil R4 701000030 Resistor R20J 270 Ω Coil R5 7010004730 Resistor R25J 47 Ω Coil R6 7010004730 R					C1
L3 518000000 Coil LAL 03NA 101K Coil L44 618000800 Coil LAL 03NA 101K Coil L45 618000880 Coil LAL 03NA 100K Coil L46 618000880 Coil LAL 03NA 100K Coil L47 618000880 Coil LAL 03NA 100K Coil L48 618000880 Coil LAL 03NA 100K Coil L49 618000800 Coil LAL 03NA 100K Coil L51 6140001460 Coil LR-170 Coil L51 6140001400 Coil LR-170 Coil R4 701000030 Resistor ELR25J 330 Ω Coil R4 701000430 Resistor R20J 270 Ω Coil R7 701004730 Resistor R20J 270 Ω Coil R7 701004730 Resistor R25J 47 Ω Coil R11 701004730 Resistor R50XJ 120 Ω Coil R12 701004730	,	1	1		C1
L45 5180000880 Coil LAL 03NA 100K Coil L46 6180000800 Coil LAL 03NA 100K Coil L47 6180000800 Coil LAL 03NA 100K Coil L48 618000800 Coil LAL 03NA 100K Coil L49 6180000900 Coil LAL 03NA 100K Coil L50 6140001400 Coil LA-170 Coil L51 6140001400 Coil LR-170 Coil L51 6140001400 Coil LR-163 Coil R1 7010001300 Resistor ELR25J 230 Ω Coil R3 7010004300 Resistor RED3 220 Ω Coil R4 701000430 Resistor RED3 220 Ω Coil R6 701000430 Resistor RED3 220 Ω Coil R11 7010004730 Resistor RD3 47 Ω Coil R11 7010004730 Resistor RD3 120 Ω Coil R12 701004730	1				C1
L46 5180000880 Coil LAL 03NA 100K Coil L47 618000880 Coil LAL 03NA 100K Coil L48 618000800 Coil LAL 03NA 100K Coil L49 618000800 Coil LAL 03NA 100K Coil L50 6140001400 Coil LR-170 Coil L51 6140001340 Coil LR-170 Coil L51 6140001340 Coil LR-170 Coil R2 701000030 Resistor ELR25J 330 Ω Coil R4 701000230 Resistor ELR25J 470 Ω Coil R5 701000430 Resistor R20J 270 Ω Coil R6 7010004730 Resistor R25J 47 Ω Coil R11 701000990 Resistor R25J 47 Ω Coil R11 7010004730 Resistor R5DJ 120 Ω Coil R111 7010004730 Resistor R5DJ 10 Ω Coil R113 7010004650		1			C1
L47 6180000880 Coil LAL 03NA 100K Coil L48 6180000800 Coil LAL 03NA 100K Coil L50 6140001460 Coil LR-170 Coil L51 6140001460 Coil LR-170 Coil L51 6140001340 Coil LR-163 Coil R1 7010000310 Resistor ELR25J 220 Ω Coil R3 701000290 Resistor ELR25J 220 Ω Coil R4 701000430 Resistor REAZSJ 470 Ω Coil R6 7010004730 Resistor RED 2J 70 Ω Coil R7 7010004730 Resistor R25J 47 Ω Coil R11 7010004730 Resistor R50XJ 120 Ω Coil R11 7010004730 Resistor R50XJ 120 Ω Coil R11 7010004730 Resistor R50XJ 120 Ω Coil R12 7010004730 Resistor R50XJ 120 Ω Coil R14 7080000			4		C20
L48 6180000880 Coil LAL 03NA 100K Coil L49 618000900 Coil LAL 03NA 101K Coil L50 6140001340 Coil LR-170 Coil L51 6140001340 Coil LR-170 Coil R1 7010000310 Resistor ELR25J 330 Ω Coil R2 701000330 Resistor ELR25J 220 Ω Coil R4 701000330 Resistor ELR25J 470 Ω Coil R5 701000430 Resistor R20J 270 Ω Coil R6 7010004730 Resistor R25J 47 Ω Coil R11 7010004730 Resistor R25J 47 Ω Coil R11 7010004730 Resistor R50XJ 120 Ω Coil R11 7010004730 Resistor R50XJ 120 Ω Coil R11 7010004730 Resistor R50XJ 120 Ω Coil R12 7010004730 Resistor R50XJ 120 Ω Coil R14 7080		1			C2 C2
L49 618000900 Coil LAL 03NA 101K Coil L50 6140001460 Coil LR-170 Coil L51 6140001340 Coil LR-170 Coil R1 7010000310 Resistor ELR25J 330 Ω Coil R2 7010000300 Resistor ELR25J 220 Ω Coil R4 701000330 Resistor ELR25J 220 Ω Coil R5 701000430 Resistor R2DJ 270 Ω Coil R6 701000430 Resistor R2DJ 270 Ω Coil R7 7010004730 Resistor R2DJ 270 Ω Coil R8 731000680 Trimmer RH0651C12J04A (101) Coil R10 7010004730 Resistor R5DXJ 120 Ω Coil R11 7010004730 Resistor R5DXJ 120 Ω Coil R14 708000650 Resistor R5DXJ 120 Ω Coil R14 708000650 Resistor RSS1P 3R3 Ω Coil R16 <t< td=""><td></td><td></td><td></td><td></td><td>C2</td></t<>					C2
L50 6140001460 Coil LR-170 Coil L51 6140001340 Coil LR-163 Coil R1 7010000310 Resistor ELR25J 330 Ω Coil R2 7010000300 Resistor ELR25J 220 Ω Coil R4 701000290 Resistor ELR25J 470 Ω Coil R4 7010004830 Resistor R50XJ 4.7 Ω Coil R6 7010004730 Resistor R50XJ 120 Ω Coil R7 7010004730 Resistor R25J 47 Ω Coil R11 7010004730 Resistor R25J 47 Ω Coil R11 7010004730 Resistor R25J 47 Ω Coil R11 7010004730 Resistor R50XJ 120 Ω Coil R11 7010004730 Resistor RS0XJ 120 Ω Coil R14 7080000650 Resistor RS0XJ 120 Ω Coil R14 7080000650 Resistor R50XJ 120 Ω Coil R14 <t< td=""><td></td><td></td><td></td><td></td><td>C24</td></t<>					C24
R1 7010000310 Resistor ELR25J 330 Ω C R2 7010001050 Resistor R25J 150 Ω C R3 7010000300 Resistor ELR25J 220 Ω C R4 701000430 Resistor ELR25J 220 Ω C R6 7010004730 Resistor R50XJ 47 Ω C C R7 7010004730 Resistor R50XJ 120 Ω C C R9 7010004730 Resistor R50XJ 120 Ω C C R11 7010004730 Resistor R50XJ 120 Ω C C R12 7010004730 Resistor R50XJ 120 Ω C C R13 7010004650 Resistor R50XJ 120 Ω C C R14 708000650 Resistor RS51P 3R3 Ω C C R16 7010004650 Resistor R50XJ 120 Ω C C	L50	6140001460	Coil	LR-170	C2
R1 7010000310 Resistor ELR25J 330 Ω C R2 701000150 Resistor R25J 150 Ω C R3 701000200 Resistor ELR25J 220 Ω C R4 701000430 Resistor ELR25J 470 Ω C C R6 7010004120 Resistor R50XJ 4.7 Ω C C R7 7010004730 Resistor R50XJ 120 Ω C C R8 7310000680 Trimmer RH0651C12J04A (101) C C R11 7010004730 Resistor R50XJ 120 Ω C C R12 7010004730 Resistor R50XJ 120 Ω C C R13 7010004730 Resistor R50XJ 120 Ω C C R14 7080000650 Resistor R51P 3R3 Ω C C C R15 7080000650 Resistor R50XJ 120 Ω C C C R15 7080000650 Resistor R50XJ 10 Ω C	L51	6140001340	Coil	LR-163	
R1 7010000310 Resistor ELR25J 330 Ω C R2 7010001050 Resistor R25J 150 Ω C R3 7010000290 Resistor ELR25J 220 Ω C R4 701000430 Resistor ELR25J 270 Ω C R5 7010004120 Resistor R20J 270 Ω C R6 7010004730 Resistor R50XJ 120 Ω C C R8 7310000680 Trimmer RH0651C12J04A (101) C C R9 7010004730 Resistor R25J 47 Ω C C R11 7010004730 Resistor R50XJ 120 Ω C C R13 7010004730 Resistor R50XJ 120 Ω C C R14 708000650 Resistor RS51P 3R3 Ω C C R16 708000650 Resistor RS51P 3R3 Ω C C R15 7010004730 Resistor R550XJ 10 Ω C C R16 7080000					C2 C2
R2 7010001050 Resistor R25J 150 Ω C R3 7010000290 Resistor ELR25J 220 Ω C R4 7010000330 Resistor ELR25J 470 Ω C R5 701000430 Resistor R50XJ 47 Ω C C R6 7010004730 Resistor R50XJ 120 Ω C C R8 7310000680 Trimmer RH0651C12J04A (101) C C R9 701000990 Resistor R25J 47 Ω C C R10 7010004730 Resistor R50XJ 120 Ω C C R11 7010004730 Resistor R51P 3R3 Ω C C R14 708000650 Resistor RS1P 3R3 Ω C C R15 708000650 Resistor RS1P 3R3 Ω C C R17 708000650 Resistor RS1P 3R3 Ω C C R18 7010004730 Resistor RS1P 3R3 Ω C C <	B1	7010000310	Resistor	EL B25.1 330 O	C2
R3 7010000290 Resistor ELR25J 220 Ω R4 7010000330 Resistor ELR25J 470 Ω C R5 7010004830 Resistor R20J 270 Ω C R6 7010004730 Resistor R20J 270 Ω C C R7 7010004730 Resistor R50XJ 120 Ω C C R8 7310000680 Trimmer RH0651C12J04A (101) C C R9 701000990 Resistor R50XJ 120 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R11 7010004730 Resistor RS51P 3R3 Ω C C R14 708000650 Resistor RS51P 3R3 Ω C C R15 708000650 Resistor RS51P 3R3 Ω C C R16 708000650 Resistor R50XJ 120 Ω C C C R		1			C2
R5 7010004300 Resistor R50XJ 4.7 Ω C R6 7010004120 Resistor R20J 270 Ω C R7 7010004730 Resistor R50XJ 120 Ω C R8 7310000680 Trimmer RH0651C12J04A (101) C R9 701000990 Resistor R25J 47 Ω C R10 701000990 Resistor R50XJ 120 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R13 7010004730 Resistor R50XJ 120 Ω C R14 708000650 Resistor RSS1P 3R3 Ω C R15 708000650 Resistor RSS1P 3R3 Ω C C R16 708000650 Resistor RSS1P 3R3 Ω C C C R18 7010004730 Resistor R50XJ 120 Ω C C R17 708000650 Resistor R50XJ 10 Ω C C R20 7010000450 Resistor R50XJ 10 Ω <td>R3</td> <td>7010000290</td> <td>Resistor</td> <td>ELR25J 220 Ω</td> <td></td>	R3	7010000290	Resistor	ELR25J 220 Ω	
R6 7010004120 Resistor R20J 270 Ω C R7 7010004730 Resistor R50XJ 120 Ω C R8 7310000880 Trimmer RH0651C12J04A (101) C R9 701000990 Resistor R25J 47 Ω C R10 701000990 Resistor R25J 47 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R14 7010004650 Resistor R50XJ 120 Ω C R14 708000650 Resistor RS1P 3R3 Ω C R15 708000650 Resistor RS1P 3R3 Ω C C R18 7010004730 Resistor R50XJ 120 Ω C C R19 7310000710 Trimmer RH0651C13J1YA (102) C C R20 7010004650 Resistor R50XJ 10 Ω C C R21 7010004650 Resistor R50XJ 10 Ω <t< td=""><td></td><td></td><td></td><td></td><td>C3</td></t<>					C3
R7 7010004730 Resistor R50XJ 120 Ω C R8 7310000680 Trimmer RH0651C12J04A (101) C R9 7010000990 Resistor R25J 47 Ω C R10 7010004730 Resistor R25J 47 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R12 7010004730 Resistor R50XJ 120 Ω C R13 7010004650 Resistor R50XJ 120 Ω C R14 708000650 Resistor RS1P 3R3 Ω C C R16 708000650 Resistor RS1P 3R3 Ω C C R17 708000650 Resistor RS0XJ 120 Ω C C R18 7010004730 Resistor R50XJ 120 Ω C C R19 731000710 Trimmer RH0651C13J1YA (102) C C R20 7010004650 Resistor R50XJ 10 Ω C C R21 7080000650 Resistor <td></td> <td></td> <td></td> <td>1</td> <td>C3</td>				1	C3
R8 7310000680 Trimmer RH0651C12J04A (101) C R9 7010000990 Resistor R25J 47 Ω C R10 7010000990 Resistor R25J 47 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R13 701000450 Resistor R50XJ 10 Ω C R14 708000650 Resistor RS1P 3R3 Ω C C R15 708000650 Resistor RSS1P 3R3 Ω C C R17 708000650 Resistor RSS1P 3R3 Ω C C R18 7010004730 Resistor R50XJ 120 Ω C C R18 7010004650 Resistor R50XJ 120 Ω C C R20 7010004650 Resistor R50XJ 10 Ω C C R21 7010004650 Resistor R50XJ 10 Ω C C R22 708000650 R			1		C3:
R9 7010000990 Resistor R25J 47 Ω C R10 701000990 Resistor R25J 47 Ω C R11 7010004730 Resistor R50XJ 120 Ω C R12 7010004730 Resistor R50XJ 120 Ω C R13 7010004650 Resistor R50XJ 120 Ω C R14 708000650 Resistor R5S1P 3R3 Ω C R15 708000650 Resistor RSS1P 3R3 Ω C R16 708000650 Resistor RSS1P 3R3 Ω C R17 708000650 Resistor RSS1P 3R3 Ω C R18 7010004730 Resistor RS0XJ 120 Ω C R18 701000450 Resistor R50XJ 10 Ω C C R20 7010004650 Resistor RS1P 3R3 Ω C C C R21 7010004650 Resistor RS1P 3R3 Ω C C C R21 701000370 Resistor CP5AJ 0.012 Ω			1		C34
R11 7010004730 Resistor R50XJ 120 Ω C R12 7010004730 Resistor R50XJ 120 Ω C C R13 7010004650 Resistor R50XJ 10 Ω C C R14 7080000650 Resistor RSS1P 3R3 Ω C C R15 7080000650 Resistor RSS1P 3R3 Ω C C R16 7080000650 Resistor RSS1P 3R3 Ω C C R17 7080000650 Resistor RSS1P 3R3 Ω C C R18 7010004730 Resistor RS0XJ 10 Ω C C R19 731000710 Trimmer RH0651C13J1YA (102) C C R20 7010004650 Resistor RS0XJ 10 Ω C C C R21 7010004650 Resistor RS0XJ 10 Ω C C C R22 7080000650 Resistor RS1P 3R3 Ω C C C R23 708000050 Re	R9	7010000990	Resistor	R25J 47 Ω	C3
R127010004730ResistorR50XJ 120 ΩCR137010004650ResistorR50XJ 10 ΩCR14708000650ResistorRS1P 3R3 ΩCR15708000650ResistorRSS1P 3R3 ΩCR16708000650ResistorRSS1P 3R3 ΩCR17708000650ResistorRSS1P 3R3 ΩCR187010004730ResistorR50XJ 120 ΩCR19731000710TrimmerRH0651C13J1YA (102)CR207010004650ResistorR50XJ 10 ΩCR217010004650ResistorR50XJ 10 ΩCR22708000650ResistorRSS1P 3R3 ΩCR23708000650ResistorRSS1P 3R3 ΩCR24707000250ResistorRS1P 3R3 ΩCR25701000370ResistorELR25J 1 KΩCR26710000370ResistorELR25J 1 KΩCR27701000370ResistorR20J 470 ΩCR28701000370ResistorR20J 470 ΩCR337010004150ResistorELR20J 56 kΩCR33701000360ResistorR20J 39 ΩCR33701000360ResistorR20J 39 ΩCR34701000360ResistorR20J 39 ΩCR35701000350ResistorR20J 47 kΩCR33701000350ResistorR20J 47 kΩCR34701000350ResistorR20J			1		C3
R137010004650ResistorR50XJ 10 ΩCR14708000650ResistorRS1P 3R3 ΩCR15708000650ResistorRSS1P 3R3 ΩCR16708000650ResistorRSS1P 3R3 ΩCR17708000650ResistorRSS1P 3R3 ΩCR187010004730ResistorRSS1P 3R3 ΩCR197310004730ResistorR50XJ 120 ΩCR19731000470TrimmerRH0651C13J1YA (102)CR207010004650ResistorR50XJ 10 ΩCR217010004650ResistorRSS1P 3R3 ΩCR22708000650ResistorRSS1P 3R3 ΩCR23708000650ResistorRSS1P 3R3 ΩCR24707000250ResistorCR4200 R-02J 4.7 Ω (4R7)CR25701000370ResistorCP-5AJ 0.012 ΩCR26710000370ResistorR25J 330 ΩCR27701000370ResistorR20J 470 ΩCR307010004150ResistorR20J 470 ΩCR31701000370ResistorELR20J 5.6 kΩCR337010004190ResistorR20J 99 ΩCR357010003610ResistorR20J 99 ΩCR34701000420ResistorR20J 99 ΩCR35701000420ResistorR20J 99 ΩCR36701000350ResistorR20J 4.7 kΩCR37701000350R					C3 C3
R147080000650ResistorRSS1P 3R3 ΩCR157080000650ResistorRSS1P 3R3 ΩCR167080000650ResistorRSS1P 3R3 ΩCR177080000650ResistorRSS1P 3R3 ΩCR187010004730ResistorRS0XJ 120 ΩCR197310000710TrimmerRH0651C13J1YA (102)CR207010004650ResistorR50XJ 10 ΩCR217010004650ResistorRSS1P 3R3 ΩCR227080000650ResistorRSS1P 3R3 ΩCR237080000650ResistorRSS1P 3R3 ΩCR247070000250ResistorRSS1P 3R3 ΩCR25701000370ResistorCH200 R-02J 4.7 Ω (4R7)CR26710000370ResistorELR25J 1 kΩCR27701000370ResistorR25J 330 ΩCR28701000190ResistorR20J 470 ΩCR317010004150ResistorR20J 39 ΩCR337010004150ResistorELR20J 39 kΩCR33701003610ResistorR20J 39 ΩCR34701000420ResistorR20J 39 ΩCR35701000420ResistorR20J 39 ΩCR367010004270ResistorR20J 39 ΩCR367010004270ResistorR20J 4.7 kΩCR37701003550ResistorELR20J 100 kΩCR38701003550					C3
R15708000650ResistorRSS1P 3R3 ΩCR16708000650ResistorRSS1P 3R3 ΩCR17708000650ResistorRSS1P 3R3 ΩCR187010004730ResistorR50XJ 120 ΩCR19731000710TrimmerRH0651C13J1YA (102)CR207010004650ResistorR50XJ 10 ΩCR217010004650ResistorRSS1P 3R3 ΩCR22708000650ResistorRSS1P 3R3 ΩCR23708000650ResistorRSS1P 3R3 ΩCR24707000250ResistorRSS1P 3R3 ΩCR25701000370ResistorELR25J 1 kΩCR26710000370ResistorRELR25J 1 kΩCR27701000370ResistorR25J 330 ΩCR28701000190ResistorR20J 470 ΩCR317010004150ResistorELR25J 1 kΩCR337010004150ResistorR20J 39 ΩCR33701000406ResistorR20J 39 ΩCR34701000420ResistorR20J 39 ΩCR357010004270ResistorR20J 39 ΩCR36701004270ResistorR20J 15 kΩCR37701003550ResistorELR20J 100 kΩCR36701003550ResistorR20J 4.7 kΩCR36701003550ResistorR20J 4.7 kΩCR37701003550Resistor <td< td=""><td></td><td></td><td></td><td></td><td>C4</td></td<>					C4
R177080000650ResistorRSS1P 3R3 ΩCR187010004730ResistorR50XJ 120 ΩCR197310000710TrimmerRH0651C13J1YA (102)CR207010004650ResistorR50XJ 10 ΩCR217010004650ResistorR50XJ 10 ΩCR22708000650ResistorRSS1P 3R3 ΩCR23708000650ResistorRSS1P 3R3 ΩCR24707000250ResistorCH200 R-02J 4.7 Ω (4R7)CR25701000370ResistorELR25J 1 kΩCR26710000370ResistorR213 30 ΩCR27701000370ResistorR25J 330 ΩCR28701000190ResistorR20J 470 ΩCR307010004150ResistorR20J 1 kΩCR31701003490ResistorELR20J 5.6 kΩCR33701003610ResistorR20J 39 ΩCR34701000420ResistorR20J 39 ΩCR35701000420ResistorR20J 4.7 kΩCR3870100350ResistorR20J 4.7 kΩCR3870100350ResistorELR20J 15 kΩCR3870100350ResistorELR20J 15 kΩCR34701003550ResistorELR20J 15 kΩCR34701003550ResistorELR20J 15 kΩCR35701003550ResistorELR20J 100 kΩCR40701003550Re	R15	708000650	Resistor	RSS1P 3R3 Ω	C4
R187010004730ResistorR50XJ 120 ΩCR197310000710TrimmerRH0651C13J1YA (102)CR207010004650ResistorR50XJ 10 ΩCR217010004650ResistorR50XJ 10 ΩCR227080000650ResistorRSS1P 3R3 ΩCR237080000650ResistorCR41200 R-02J 4.7 Ω (4R7)CR24707000250ResistorCH25J 1 kΩCR257010000370ResistorELR25J 1 kΩCR26710000370ResistorR25J 330 ΩCR27701000370ResistorR25J 330 ΩCR287010001990ResistorR20J 470 ΩCR307010004150ResistorR20J 1 kΩCR317010003490ResistorELR20J 5.6 kΩCR337010003610ResistorR20J 39 ΩCR34701000420ResistorR20J 39 ΩCR35701000420ResistorR20J 4.7 kΩCR367010004270ResistorR20J 4.7 kΩCR37701003550ResistorELR20J 15 kΩCR38701003550ResistorELR20J 15 kΩCR447010003550ResistorELR20J 15 kΩCR447010003560ResistorELR20J 15 kΩCR387010004270ResistorELR20J 100 kΩCR447010003560ResistorELR20J 100 kΩCR44701	1				C4:
R197310000710TrimmerRH0651C13J1YA (102)CR207010004650ResistorR50XJ 10 ΩCR217010004650ResistorR50XJ 10 ΩCR227080000650ResistorRS1P 3R3 ΩCR237080000650ResistorRS1P 3R3 ΩCR24707000250ResistorCH200 R-02J 4.7 Ω (4R7)CR25701000370ResistorELR25J 1 kΩCR26710000370ResistorELR25J 1 kΩCR27701000370ResistorR25J 330 ΩCR287010004150ResistorR20J 470 ΩCR307010004150ResistorELR20J 5.6 kΩCR317010003490ResistorELR20J 39 kΩCR33701000400ResistorR20J 39 ΩCR34701000420ResistorR20J 39 ΩCR35701000350ResistorR20J 4.7 kΩCR38701000350ResistorR20J 4.7 kΩCR37701003550ResistorR20J 4.7 kΩCR387010003550ResistorELR20J 15 kΩCR387010003550ResistorELR20J 15 kΩCR41701003550ResistorELR20J 15 kΩCR41701003660ResistorELR20J 100 kΩCR42754000010AbsorberDSA-301LAC		1			C4
R207010004650ResistorR50XJ 10 ΩCR217010004650ResistorR50XJ 10 ΩCR22708000650ResistorRS1P 3R3 ΩCR23708000650ResistorRSS1P 3R3 ΩCR24707000250ResistorCH200 R-02J 4.7 Ω (4R7)CR25701000370ResistorCH200 R-02J 4.7 Ω (4R7)CR26710000510ResistorCP-5AJ 0.012 ΩCR27701000370ResistorELR25J 1 kΩCR287010004150ResistorR20J 470 ΩCR307010004150ResistorR20J 470 ΩCR31701003490ResistorELR20J 5.6 kΩCR33701000410ResistorR20J 39 ΩCR347010004020ResistorR20J 39 ΩCR357010004060ResistorR20J 4.7 kΩCR36701000450ResistorR20J 4.7 kΩCR3770100350ResistorR20J 4.7 kΩCR3770100350ResistorR20J 4.7 kΩCR3770100350ResistorELR20J 100 kΩCR39701000450ResistorELR20J 100 kΩCR39701000350ResistorELR20J 100 kΩCR41701003550ResistorELR20J 100 kΩCR41701003550ResistorELR20J 100 kΩCR42754000010AbsorberDSA-301LAC	1	1			C4 C4
R217010004650ResistorR50XJ 10 ΩCR22708000650ResistorRSS1P 3R3 ΩCR23708000650ResistorRSS1P 3R3 ΩCR24707000250ResistorCH200 R-02J 4.7 Ω (4R7)CR257010000370ResistorELR25J 1 kΩCR26710000370ResistorELR25J 1 kΩCR27701000370ResistorELR25J 30 ΩCR28701000450ResistorR25J 330 ΩCR297010004150ResistorR20J 470 ΩCR307010004190ResistorR20J 470 ΩCR317010003490ResistorELR20J 5.6 kΩCR337010004190ResistorELR20J 39 ΩCR347010004020ResistorR20J 39 ΩCR357010004060ResistorR20J 82 ΩCR367010004270ResistorR20J 39 ΩCR37701003550ResistorELR20J 15 kΩCR397010003550ResistorELR20J 100 kΩCR41701003550ResistorELR20J 15 kΩCR41701003550ResistorELR20J 15 kΩCR41701003550ResistorELR20J 100 kΩCR42754000010AbsorberDSA-301LAC	1		1	· · ·	C4
R237080000650ResistorRSS1P 3R3 ΩCR24707000250ResistorCRH200 R-02J 4.7 Ω (4R7)CR25701000370ResistorELR25J 1 kΩCR26710000370ResistorCF-5AJ 0.012 ΩCR27701000370ResistorR25J 330 ΩCR28701000190ResistorR25J 330 ΩCR297010004150ResistorR20J 470 ΩCR307010004190ResistorELR20J 5.6 kΩCR32751000070ThermistorERT-D2FHL503SCR337010004020ResistorR20J 39 ΩCR347010004020ResistorR20J 82 ΩCR35701000460ResistorR20J 82 ΩCR367010004270ResistorR20J 15 kΩCR37701003550ResistorELR20J 15 kΩCR38701003660ResistorR20J 4.7 kΩCR41701003550ResistorELR20J 100 kΩCR41701003660ResistorR20J 4.7 kΩCR42754000010AbsorberDSA-301LAC	1		1		C4
R247070000250ResistorCRH200 R-02J 4.7 Ω (4R7)CR257010000370ResistorELR25J 1 kΩCR267100000510ResistorCP-5AJ 0.012 ΩCR277010000370ResistorELR25J 1 kΩCR28701000190ResistorR25J 330 ΩCR307010004150ResistorR20J 470 ΩCR317010004190ResistorELR20J 5.6 kΩCR327510003610ResistorELR20J 39 kΩCR33701000410ResistorR2LR20J 39 kΩCR337010003610ResistorR20J 39 ΩCR347010004020ResistorR20J 39 ΩCR35701000460ResistorR20J 82 ΩCR367010004270ResistorELR20J 15 kΩCR37701003550ResistorELR20J 15 kΩCR387010003550ResistorELR20J 100 kΩCR417010003560ResistorELR20J 15 kΩCR417010003660ResistorELR20J 100 kΩCR42754000010AbsorberDSA-301LAC	R22	1	Resistor		C4
R257010000370ResistorELR25J 1 kΩCR267100000510ResistorCP-5AJ 0.012 ΩCR277010000370ResistorELR25J 1 kΩCR287010001990ResistorR25J 330 ΩCR297010004150ResistorR20J 470 ΩCR307010004190ResistorELR20J 1.6 kΩCR317010003490ResistorELR20J 5.6 kΩCR337010003610ResistorELR20J 39 kΩCR347010004020ResistorR20J 82 ΩCR35701000400ResistorR20J 82 ΩCR367010004270ResistorR20J 4.7 kΩCR37701003550ResistorELR20J 15 kΩCR387010003500ResistorELR20J 15 kΩCR407010003550ResistorR20J 4.7 kΩCR417010003660ResistorR20J 4.7 kΩCR41754000010AbsorberDSA-301LAC		1	1		C49
R26710000510ResistorCP-5AJ0.012 ΩCR27701000370ResistorELR25J1 kΩCR287010001990ResistorR25J330 ΩCR297010004150ResistorR20J470 ΩCR307010004190ResistorR20J470 ΩCR317010003490ResistorELR20J5.6 kΩCR32751000070ThermistorELR20J39 kΩCR337010003610ResistorR20J39 ΩCR347010004020ResistorR20J39 ΩCR35701000420ResistorR20J82 ΩCR367010004270ResistorR20J4.7 kΩCR37701003550ResistorELR20J15 kΩCR387010003550ResistorR20J4.7 kΩCR397010003550ResistorR20J15 kΩCR41701003660ResistorELR20J15 kΩCR41754000010AbsorberDSA-301LAC	1		1		C5
R277010000370ResistorELR25J 1 kΩCR287010001090ResistorR25J 330 ΩCR297010004150ResistorR20J 470 ΩCR307010004190ResistorR20J 1 kΩCR317010003490ResistorELR20J 5.6 kΩCR32751000070ThermistorERT-D2FHL503SCR337010003610ResistorR20J 39 ΩCR347010004020ResistorR20J 82 ΩCR357010004060ResistorR20J 4.7 kΩCR36701000350ResistorELR20J 15 kΩCR38701000350ResistorELR20J 100 kΩCR397010004270ResistorELR20J 100 kΩCR407010003550ResistorELR20J 15 kΩCR417010003660ResistorELR20J 100 kΩCR42754000010AbsorberDSA-301LAC	1		1 · ·		C5
R287010001090ResistorR25J 330 ΩCR297010004150ResistorR20J 470 ΩCR307010004190ResistorR20J 1 kΩCR317010003490ResistorELR20J 5.6 kΩCR32751000070ThermistorERT-D2FHL503SCR337010003610ResistorR20J 39 kΩCR347010004020ResistorR20J 39 ΩCR357010004060ResistorR20J 4.7 kΩCR367010004270ResistorELR20J 15 kΩCR377010003550ResistorELR20J 100 kΩCR397010003550ResistorELR20J 100 kΩCR407010003550ResistorELR20J 15 kΩCR417010003660ResistorELR20J 100 kΩCR42754000010AbsorberDSA-301LAC	1	1	1		C5
R30 7010004190 Resistor R20J 1 kΩ C R31 7010003490 Resistor ELR20J 5.6 kΩ C R32 751000070 Thermistor ERT-D2FHL503S C R33 7010003610 Resistor ELR20J 39 kΩ C R34 7010004020 Resistor R20J 39 Ω C R35 7010004060 Resistor R20J 39 Ω C C R36 7010004270 Resistor R20J 42.7 kΩ C C R37 7010003550 Resistor ELR20J 15 kΩ C C R37 7010003550 Resistor ELR20J 100 kΩ C C R38 7010003550 Resistor ELR20J 100 kΩ C C R39 7010003550 Resistor ELR20J 100 kΩ C C R40 7010003550 Resistor ELR20J 15 kΩ C C R41 7010003660 Resistor ELR20J 100 kΩ C C R42	1	1	ſ	R25J 330 Ω	C54
R31 7010003490 Resistor ELR20J 5.6 kΩ C R32 751000070 Thermistor ERT-D2FHL503S C R33 7010003610 Resistor ELR20J 39 kΩ C R34 7010004020 Resistor R20J 39 Ω C C R35 7010004060 Resistor R20J 82 Ω C C R36 7010004270 Resistor R20J 82 Ω C C R37 7010003550 Resistor R20J 4.7 kΩ C C R38 7010003550 Resistor ELR20J 15 kΩ C C R39 7010003550 Resistor ELR20J 15 kΩ C C R40 7010003550 Resistor ELR20J 15 kΩ C C R41 7010003660 Resistor ELR20J 100 kΩ C C R41 7010003660 Resistor ELR20J 100 kΩ C	R29			1	C5
R32 751000070 Thermistor ERT-D2FHL503S C R33 7010003610 Resistor ELR20J 39 kΩ C R34 7010004020 Resistor R20J 39 Ω C R35 7010004060 Resistor R20J 39 Ω C R36 7010004270 Resistor R20J 42 Ω C R37 7010003550 Resistor ELR20J 15 kΩ C R38 7010003660 Resistor ELR20J 100 kΩ C R39 7010003550 Resistor ELR20J 100 kΩ C R40 7010003660 Resistor ELR20J 15 kΩ C R40 7010003550 Resistor ELR20J 15 kΩ C R41 7010003660 Resistor ELR20J 100 kΩ C R41 7010003660 Resistor ELR20J 100 kΩ C R42 754000010 Absorber DSA-301LA C	1				C5
R33 7010003610 Resistor ELR20J 39 kΩ C R34 7010004020 Resistor R20J 39 Ω C C R35 7010004020 Resistor R20J 39 Ω C C R35 701000400 Resistor R20J 82 Ω C C R36 7010004270 Resistor R20J 4.7 kΩ C C R37 7010003550 Resistor ELR20J 15 kΩ C C R38 7010003660 Resistor ELR20J 100 kΩ C C R39 7010003550 Resistor ELR20J 15 kΩ C C R40 7010003550 Resistor ELR20J 15 kΩ C C R41 7010003560 Resistor ELR20J 100 kΩ C C R42 754000010 Absorber DSA-301LA C C					C5
R34 7010004020 Resistor R20J 39 Ω C R35 7010004060 Resistor R20J 82 Ω C C R36 7010004270 Resistor R20J 4.7 kΩ C C R37 7010003550 Resistor ELR20J 15 kΩ C C R38 7010003660 Resistor ELR20J 100 kΩ C C R39 7010003550 Resistor R20J 4.7 kΩ C C R40 7010003550 Resistor ELR20J 100 kΩ C C R41 7010003660 Resistor ELR20J 100 kΩ C C R42 754000010 Absorber DSA-301LA C C	1				C59
R35 7010004060 Resistor R20J 82 Ω CC R36 7010004270 Resistor R20J 4.7 kΩ CC R37 7010003550 Resistor ELR20J 15 kΩ CC R38 7010003660 Resistor ELR20J 100 kΩ CC R39 7010003550 Resistor R20J 4.7 kΩ CC R40 7010003550 Resistor ELR20J 100 kΩ CC R41 7010003660 Resistor ELR20J 100 kΩ CC R42 754000010 Absorber DSA-301LA CC					C6
R37 7010003550 Resistor ELR20J 15 kΩ C R38 7010003660 Resistor ELR20J 100 kΩ C R39 7010004270 Resistor R20J 4.7 kΩ C R40 7010003550 Resistor ELR20J 15 kΩ C R41 7010003660 Resistor ELR20J 15 kΩ C R41 7010003660 Resistor ELR20J 100 kΩ C R42 754000010 Absorber DSA-301LA C	1				C6
R38 7010003660 Resistor ELR20J 100 kΩ C R39 7010004270 Resistor R20J 4.7 kΩ C R40 7010003550 Resistor ELR20J 15 kΩ C R41 7010003660 Resistor ELR20J 100 kΩ C R42 754000010 Absorber DSA-301LA C		1 .			C6
R39 7010004270 Resistor R20J 4.7 kΩ C R40 7010003550 Resistor ELR20J 15 kΩ C R41 7010003660 Resistor ELR20J 100 kΩ C R42 754000010 Absorber DSA-301LA C		E Contraction of the second se	1		C6:
R40 7010003550 Resistor ELR20J 15 kΩ C R41 7010003660 Resistor ELR20J 100 kΩ C R42 7540000010 Absorber DSA-301LA C			1	,	C6
R41 7010003660 Resistor ELR20J 100 kΩ C R42 7540000010 Absorber DSA-301LA C	1				C60
	1				C6
R43 7010004390 Resistor R20J 33 kΩ	1				C6
	R43	7010004390	Resistor	R20J 33 kΩ	C69

[PA UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
46	7010004310	Resistor	R20J 8.2 kΩ
40	7010003520	Resistor	ELR20J 8.2 k Ω
	701000020	10010101	
1	4010000520	Ceramic	DD108 B 472K 50V
2	4010000510	Ceramic	DD106 B 222K 50V
3	4040000250	Barrier Layer	UAT 08X 473M
4	4040000250	Barrier Layer	UAT 08X 473M
5	4040000250	Barrier Layer	UAT 08X 473M UAT 08X 473M
6 7	4040000250 4310000110	Barrier Layer Mylar	F2D 50V 472K
8	4310000110	Mylar	F2D 50V 472K
9	4010000380	Ceramic	DD107 SL 221J 50V
10	4040000250	Barrier Layer	
:11	4010000500	Ceramic	DD104 B 102K 50V
12	4030001370	Ceramic	GR44 CH 682K
:13 :14	4030001370 4040000250	Ceramic Barrier Layer	GR44 CH 682K UAT 08X 473M
14	4040000250	Barrier Layer	
16	4510002720	Electrolytic	10 SS 47 µF
17	4030001340	Ceramic	GR44 CH 102K
18	4010000420	Ceramic	DD108 SL 391J 50V
19	4010004070	Ceramic	DD12 SL 221K 500V
20	4320000220	Dip Mica Ceramic	DM19C 681J5 GR44 CH 102K
21 22	4030001340 4010004070	Ceramic	DD12 SL 221K 500V
23	4510002640	Electrolytic	25 SS 47 µF
24	4010000520	Ceramic	DD108 B 472K 50V
25	4510000310	Electrolytic	16 MS16 1000 μF
	4040000000	Dordan Laura	(12.5X16)
26 27	4040000260 4010000380	Barrier Layer Ceramic	UZE 08X 104M DD107 SL 221J 50V
28	4040000250	Barrier Layer	UAT 08X 473M
29	4510000310	Electrolytic	16 MS16 1000 μF
			(12.5X16)
30	4040000250	Barrier Layer	UAT 08X 473M
31 32	4040000260	Barrier Layer Ceramic	UZE 08X 104M DD107 SL 221J 50V
32 33	4010000380 4010000520	Ceramic	DD107 SL 2213 50V DD108 B 472K 50V
34	4510002780	Electrolytic	16 SS 10 μF
35	4010000520	Ceramic	DD108 B 472K 50V
36	4510002440	Electrolytic	16 SS 220 μF (8X11)
37	4040000250	Barrier Layer Ceramic	UAT 08X 473M DD108 B 472K 50V
:38 :39	4010000520 4010000520	Ceramic	DD108 B 472K 50V
40	4030001340	Ceramic	GR44 CH 102K
41	4510002640	Electrolytic	25 SS 47 μF
42	4010000520	Ceramic	DD108 B 472K 50V
43	4320000290	Dip Mica	DM20C 152J5
44	4010004040 4010004100	Ceramic Ceramic	DD10 SL 151K 500V DD14 SL 331K 500V
40	4320000330	Dip Mica	DM20C 272J5
47	4010004030	Ceramic	DD10 SL 121K 500V
48	4320000290	Dip Mica	DM20C 152J5
49	4010004070	Ceramic	DD12 SL 221K 500V
50	4010004050	Ceramic	DD12 SL 181K 500V DD10 SL 151K 500V
:51 :52	4010004040 4010004070	Ceramic Ceramic	DD10 SL 151K 500V DD12 SL 221K 500V
52 53	4320000280	Dip Mica	• DM20C 122J5
54	4010003990	Ceramic	DD09 SL 680K 500V
55	4010004070	Ceramic	DD12 SL 221K 500V
56	4010004070	Ceramic	DD12 SL 221K 500V
57	4010004070	Ceramic	DD12 SL 221K 500V
58 59	4010004070 4010004050	Ceramic Ceramic	DD12 SL 221K 500V DD12 SL 181K 500V
59 60	4010004050	Ceramic	DD09 SL 101K 500V
61	4010004070	Ceramic	DD12 SL 221K 500V
62	4010004070	Ceramic	DD12 SL 221K 500V
63	4010004070	Ceramic	DD12 SL 221K 500V
64 65	4010003950	Ceramic	DD06 SL 330K 500V
65 66	4010004070 4010004050	Ceramic Ceramic	DD12 SL 221K 500V DD12 SL 181K 500V
67	4010004030	Ceramic	DD12 SL 181K 500V
68	4010004000	Ceramic	DD09 SL 820K 500V
69	4010003930	Ceramic	DD06 SL 270K 500V
	<u></u>	·	

[PA UNIT]

[PA UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	REF NO.
C70	4010004030	Ceramic	DD10 SL 121K 500V	EP16
C71	4010004050	Ceramic	DD12 SL 181K 500V	EP20
C72	4010003960	Ceramic	DD06 SL 390K 500V	EP21
C73	4010004050	Ceramic	DD12 SL 181K 500V	EP33
C74	4010004010	Ceramic	DD09 SL 101K 500V	
C75	4010003870	Ceramic Ceramic	DD06 SL 120K 500V DD12 SL 221K 500V	
C76 C77	4010004070 4010003950	Ceramic	DD06 SL 330K 500V	
C78	4010004010	Ceramic	DD09 SL 101K 500V	
C79	4010003990	Ceramic	DD09 SL 680K 500V	
C80	4010003960	Ceramic	DD06 SL 390K 500V	
C81	4010004040	Ceramic	DD10 SL 151K 500V	
C82	4010003870	Ceramic	DD06 SL 120K 500V	
C83	4010003990	Ceramic	DD09 SL 680K 500V	
C84	404000250	Barrier Layer	UAT 08X 473M	
C85	404000250	Barrier Layer	UAT 08X 473M	
C86	4040000250	Barrier Layer	UAT 08X 473M	
C87	4040000250	Barrier Layer	UAT 08X 473M UAT 08X 473M	
C88	4040000250	Barrier Layer	UAT 08X 473M	
C89 C90	4010000250	Barrier Layer Ceramic	DD108 B 472K 50V	
C90 C91	4010000520	Ceramic	DD108 B 472K 50V	
C92	4010000520	Ceramic	DD108 B 472K 50V	
C93	4010000520	Ceramic	DD108 B 472K 50V	
C94	4010000520	Ceramic	DD108 B 472K 50V	11
C95	4010000520	Ceramic	DD108 B 472K 50V	
C96	4610001120	Trimmer	CVSSC2001	
C97	4010000410	Ceramic	DD107 SL 331J 50V	
C98	4010000410	Ceramic	DD107 SL 331J 50V	
C99	4010000430	Ceramic	DD109 SL 471J 50V	
C100	4010000430	Ceramic	DD109 SL 471J 50V	
C101	4040000250	Barrier Layer	UAT 08X 473M	
C102	4010000330	Ceramic Ceramic	DD105 SL 101J 50V DD104 SL 100D 50V	
C103 C104	4010000330	Ceramic	DD105 SL 101J 50V	
0.01				
RL1	6330000180	Relay	MZ-12HG	
RL2	6330000180	Relay	MZ-12HG	
RL3	6330000180	Relay	MZ-12HG	
RL4	6330000180	Relay	MZ-12HG	
RL5	6330000180	Relay	MZ-12HG	
RL6	6330000180	Relay	MZ-12HG MZ-12HG	11
RL7 RL8	6330000180 6330000180	Relay Relay	MZ-12HG	
RL9	6330000180	Relay	MZ-12HG	
RL10	6330000180	Relay	MZ-12HG	
RL11	6330000180	Relay	MZ-12HG	
RL12	6330000180	Relay	MZ-12HG	
RL13	6330000720	Relay	DS1-M-DC12V (AG2013)	
F1	5210000130	Fuse	FGB 4A	
F2	5220000020	Holder	S-N5051	
F3	5220000020	Holder	S-N5051	
S1	6910000060	Thermostat	OHD-3 90M	
SP1	2510000040	Speaker	C065K12I0810	
MF1	2710000160	Fan Motor	HMK2605-01-100	
EP1	6910000600	Ferrite Bead	FSOH050RN	
EP2	6910000600	Ferrite Bead	FSOH050RN	
EP3	6910000600	Ferrite Bead	FSOH050RN	
EP4	6910000600	Ferrite Bead	FSOH050RN	
EP5	6910000600	Ferrite Bead	FSOH050RN	
EP6	6910000600	Ferrite Bead	FSOH050RN	
EP13	0910019444	P.C. Board	B 1790D (PA)	
EP14	0910018743	P.C. Board	B 1791C (FILTER)	
EP15	6910000600	Ferrite Bead	FSOH050RN	

REF. NO.	ORDER NO.	· · · · ·	DESCRIPTION	
EP16 EP20 EP21 EP33	6910000600 6910000630 6910000630 6910000630	Ferrite Bead Ferrite Bead Ferrite Bead Ferrite Bead	FSOH050RN FSOH070RN FSOH070RN FSOH070RN	

SECTION 9 VOLTAGE DIAGRAMS

9-1 FRONT AND MAIN UNITS



.











9-2 PLL AND PA UNITS









PLL AND PA



Icom Inc.

6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan Phone: 06 793 5301 Fax : 06 793 0013 Telex : 05277822 ICOMTR J

Icom America Inc.

<Corporate Headquarters> 2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A. Phone: (206) 454-8155 Fax : (206) 454-1509 Telex : 152210 ICOM AMER BVUE

<Customer Service> Phone : (206) 454-7619

<Regional Customer Service Centers> 3150 Premier Drive, Suite 126, Irving, TX 75063, U.S.A. Phone : (214) 550-7525 Fax : (214) 550-7423

1777 Phoenix Parkway, Suite 201, Atlanta, GA 30349, U.S.A. Phone : (404) 991-6166 Fax : (404) 991-6327

Icom Canada

A Division of Icom America Inc. 3071 #5 Road, Unit 9, Richmond, B.C., V6X 2T4, Canada Phone : (604) 273-7400 Fax : (604) 273-1900 Icom (Europe) GmbH Communication Equipment Himmelgeister Str. 100, 4000 Düsseldorf 1, W. Germany Phone : 0211 346047 Fax : 0211 338639 Telex : 8588082 ICOM D

.

Icom (Australia) Pty. Ltd. Incorporated In Victoria 7 Duke Street, Windsor, Victoria, 3181, Australia Phone: 03 529 7582 Fax : 03 529 8485 Telex : AA 35521 ICOM AS

ICOM (UK) Ltd. Unit 9, Sea St., Herne Bay, Kent, U.K. Phone: 0227 3603859 Fax : 0227 360155 Telex : 965179 ICOM G

Icom France S.a 120 Route de Revel, BP4063, 31029 Toulouse Cedex, France Phone: 61. 20. 31. 49 Fax : 61. 34. 05. 91 Telex : 521515 ICOM FRA

Count on us!

. .



Radio Mods Database

Icom Inc. 6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan A-5029H-S Printed in Japan Copyright © 1989 by Icom Inc.