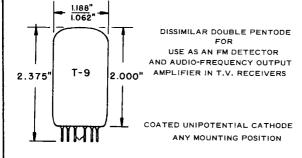
TUMB-SOL

DOUBLE PENTODE

COMPACTRON



GLASS BULB BUTTON 12 PIN BASE E12-70 OUTLINE DRAWING JEDEC 9-58

BOTTOM VIEW BASING DIAGRAM JEDEC 12BU

THE 6AL11 IS A SHARP-CUTOFF, DUAL-CONTROL PENTODE (SECTION 2) AND A POWER PENTODE (SECTION 1) IN THE T-9 COMPACTRON CONSTRUCTION. THE DUAL-CONTROL PENTODE IS INTENDED FOR USE AS AN FM DETECTOR AND THE POWER PENTODE AS AN AUDIO-FREQUENCY OUTPUT AMPLIFIER IN T.V. RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES

SECTION 1		
GRID I TO PLATE: (IGITO IP)	0.26	pf
INPUT: IG1 TO (H+ IK + IG2 + IG3 + I,S,)	11	pf
OUTPUT: IP TO (H + IK + IG2 + IG3 + I.S.)	12	. pf
SECTION 2		
GRID 1 TO PLATE: (2G1 TO 2P)	0.034	pf
GRID 3 TO PLATE: (2 G3 TO 2P)	3.2	pf
GRID 1 TO ALL EXCEPT PLATE: 2G1TO		
(H + 2K + 2G2 + 2G3 + 1,S.)	6.5	pf
GRID 3 TO ALL: 2 _{G3} TO (H+2K+2G1+2G2+2P+1.S.)	7.5	pf
GRID 1 TO GRID 3: (2 G1 TO 2G3)	0.24	pf
PLATE TO PLATE: (1P TO 2P)	0.12	pf

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---- TUNG·SOL -

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HEATER CHARACTERISTICS AND RATINGS DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	900	MA.	
LIMITS OF APPLIED VOLTAGE		6.3 ± 0.6	VOLTS	
HEATER-CATHODE VOLTAGE	SECTION 1	SECTION 2		
HEATER POSITIVE WITH RESPECT TO CATHODE				
DC COMPONENT	100	100	VOLTS	
TOTAL DC AND PEAK	200	200	VOLTS	
HEATER NEGATIVE WITH RESPECT TO CATHODE				
TOTAL DC AND PEAK	200	200	VOL TS	

MAXIMUM RATINGS DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

	SECTION 1	SECTION 2	
PLATE VOLTAGE	275	330	VOLTS
GRID 2 VOLTAGE	275	SEE RATING CHART	VOLTS
GRID 2 SUPPLY VOLTAGE		330	VOLTS
GRID 3 (SUPPESSOR) VOLTAGE		28	VOLTS
POSITIVE DC GRID 1 VOLTAGE		0	VOLTS
PLATE DISSIPATION	10	1.7	WATTS
GRID 2 DISSIPATION	2.0	1.1	WATTS
GRID I CIRCUIT RESISTANCE			
WITH FIXED BIAS	0.25		MEGOHMS
WITH CATHODE BIAS	0.5		MEGOHMS

CHARACTERISTICS AND TYPICAL OPERATION

SECTION 1

PLATE VOLTAGE		250	VOLTS
GRID 2 VOLTAGE		250	VOLTS
GRID 1 VOLTAGE		-8.0	VOLTS
PEAK AF GRID 1 VOLTAGE		8.0	VOLTS
ZERO-SIGNAL PLATE CURRENT		35	MA.
MAXIMUM-SIGNAL PLATE CURRENT		39	MA.
ZERO-SIGNAL GRID 2 CURRENT		2.5	MA.
MAXIMUM SIGNAL GRID 2 CURRENT		7.0	MA.
MAXIMUM-SIGNAL POWER OUTPUT		4.2	WATTS
TRANSCONDUCTANCE		6,500	MICROMHOS
PLATE RESISTANCE	Approx.	100,000	OHMS
LOAD RESISTANCE		5,000	OHMS
TOTAL HARMONIC DISTORTION	Approx.	10	PERCENT

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