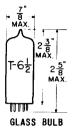
DOUBLE TRIODE

MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE HEATER 6.3 VOLTS 0.75 AMP. AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW MINIATURE BUTTON 9 PIN BASE

THE 6BN7 COMBINES TWO INDEPENDENT TRIODES IN THE 9 PIN MINIATURE CON-STRUCTION. IT IS SPECIFICALLY DESIGNED FOR SERVICE AS A COMBINED VERTICAL OSCILLATOR AND AMPLIFIER IN TELEVISION RECEIVERS. THE TWO TRIODES HAVE DIFFERENT ELECTRICAL RATINGS AND CAPABILITIES, ALLOWING ONE SECTION TO BE USED AS THE GENERATOR AND THE OTHER TO BE USED AS THE AMPLIFIER AND OUTPUT SECTION. THE DESIGN IS SUCH AS TO PERMIT SATISFACTORY OPERATION WITH LOW POWER SUPPLY VOLTAGES.

DIRECT INTERELECTRODE CAPACITANCES WITH NO EXTERNAL SHIELD

	SECTION #2	SECTION #1	
GRID TO PLATE: (G TO P)	0.7	3	μμf
GRID TO CATHODE: (G TO K)	1.4	5.5	μμf
PLATE TO CATHODE: (P TO K)	0.3	1.6	μμf
HEATER TO CATHODE: (H TO K)	2.8	4.2	μμf
PLATE TO PLATE: (P TO P) APPROX.	1.2		μμf
GRID TO GRID: (G TO G) APPROX.	0.	03	μμf

RATINGS INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE (EACH SECTION)	200	VOLTS
MAXIMUM PLATE VOLTAGE (EACH SECTION)	400	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (SECTION #1 ONLY)	1500	VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE (EACH SECTION)	-50	VOLTS
MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE (EACH SECTION)	-200	VOLTS
MAXIMUM PLATE DISSIPATION (SECTION #1)	7.5	WATTS
MAXIMUM PLATE DISSIPATION (SECTION #2)	1.5	WATTS
MAXIMUM GRID CIRCUIT RESISTANCE (EACH SECTION)	2.2	ME GOHMS

A REFERS ONLY TO PULSE DURATION TYPICAL OF 525-LINE, 30-FRAME SYSTEM WHEREIN THEPULSE IS LIMITED TO 15% OF ONE SCANNING CYCLE OR APPROXIMATELY 2.5 MILLISECONDS.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

	SECTION #2	SECTION #1	
HEATER VOLTAGE	6.3	V	OLTS
HEATER CURRENT	0.75	AI	MP.
PLATE VOLTAGE	120	250 V	OLTS
GRID VOLTAGE	-1	-15 v	OLTS
PLATE CURRENT	5	24 M.	Α.
TRANSCONDUCTANCE	2 000	الل 5 50 0 الم	MHOS
AMPLIFICATION FACTOR	28	12	
PLATE RESISTANCE	14 000	2 200 0	нмѕ
GRID VOLTAGE (APPROX.) FOR Ib = .	1∞ μ Α . –7	-35 v	OLTS

VERTICAL DEFLECTION CIRCUIT

SECTION #2 - (BASE PINS 1, 2 AND 3) AS OSCILLATOR-DISCHARGE TUBE SECTION #1 - (BASE PINS 6, 7 AND 9) AS VERTICAL AMPLIFIER

	CONDITION IB	CONDITION I	$I_{\mathbb{C}}$
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.75	0.75	AMP.
SECTION #2			
DC PLATE SUPPLY VOLTAGE	3 6 U	250	VOLTS
DC PLATE CURRENT (APPROX.)	200	125	μΑ.
SECTION #1			
DC PLATE VOLTAGE	360	250	VOLTS
CATHODE RESISTOR (APPROX.)	3 3 0	330	OHMS
DC PLATE CURRENT	21	20	MA.
PEAK TO PEAK SAWTOOTH GRID VOLTAGE (APPROX.)	75	45	VOLTS
NEGATIVE PEAK GRID VOLTAGE (APPROX.)	15	15	VOLTS

Book 15" vertical deflection of wide-angle (70°) Picture tube operation with 14 KV. Second anode voltage. Transformer 11.4:1 turns ratio to yoke of 50 ohms impedance at 1000 cycles.

TYPICAL CIRCUIT FOR CONDITIONS I AND II

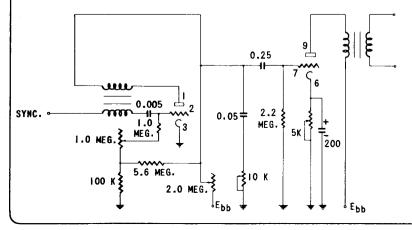
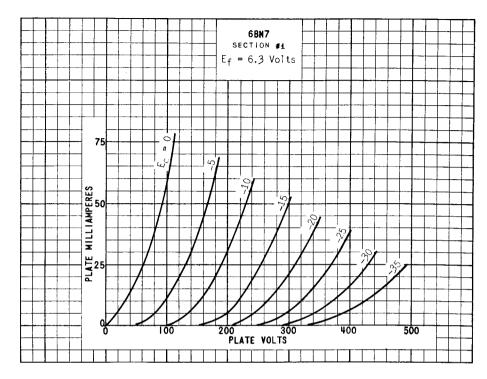


PLATE 2460 SEPT. 1 1950

CFOR 11" VERTICAL DEFLECTION OF WIDE-ANGLE (70°) PICTURE TURE OPERATION WITH 14 KV. SECOND ANODE VOLTAGE. TRANSFORMER 10:1 TURNS RATIO TO YOKE OF 50 OHMS IMPEDANCE AT 1000 CYCLES.



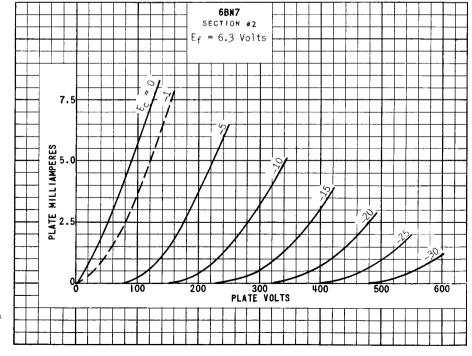


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