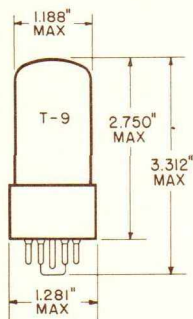


TUNG-SOL

BEAM PENTODE

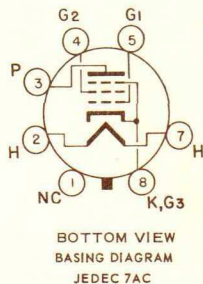


GLASS BULB
INTERMEDIATE SHELL OCTAL
B6-81 OR B7-7
OR
SHORT INTERMEDIATE
SHELL OCTAL
B6-84 OR B7-59
OUTLINE DRAWING
JEDEC 9-11 OR 9-41

COATED UNIOPTENTIAL CATHODE

FOR USE AS A VERTICAL
DEFLECTION AMPLIFIER
-IN TV RECEIVERS

AC OR DC
ANY MOUNTING POSITION



THE 6W6GT IS A BEAM PENTODE POWER AMPLIFIER DESIGNED SPECIFICALLY FOR USE AS A VERTICAL SCANNING OUTPUT TUBE IN TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

GRID TO PLATE: (G1 TO P)	0.8	pf
INPUT: G1 TO (H+K+G2+G3)	15.0	pf
OUTPUT: P TO (H+K+G2+G3)	9.0	pf

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

AVERAGE CHARACTERISTICS	6.3 VOLTS	1200	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION		6.3±0.6	VOLTS
CURRENT OPERATION		1200	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

→ MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

CLASS A1 AMPLIFIER

PLATE VOLTAGE	330	VOLTS
GRID 2 VOLTAGE	165	VOLTS
PLATE DISSIPATION	12	WATTS
GRID 2 DISSIPATION	1.35	WATTS
GRID 1 CIRCUIT RESISTANCE:		
FIXED BIAS	0.1	MEGOHM
CATHODE BIAS	0.5	MEGOHM

VERTICAL DEFLECTION AMPLIFIER^{A,B}

	TRIODE CONNECTED	PENTODE CONNECTED	
DC PLATE VOLTAGE	330	330	VOLTS
PEAK POSITIVE PULSE PLATE VOLTAGE	1200	1500	VOLTS
DC GRID 2 VOLTAGE		165	VOLTS
PLATE DISSIPATION	8.5	8	WATTS
GRID 2 DISSIPATION		1.2	WATT
PEAK NEGATIVE PULSE GRID 1 VOLTAGE	275	275	VOLTS
AVERAGE CATHODE CURRENT	65	65	MA.
PEAK CATHODE CURRENT	195	195	MA.
GRID 1 CIRCUIT RESISTANCE			
CATHODE BIAS	2.2	2.2	MEGOHMS

→ INDICATES A CHANGE.

TYPICAL OPERATING CHARACTERISTICS

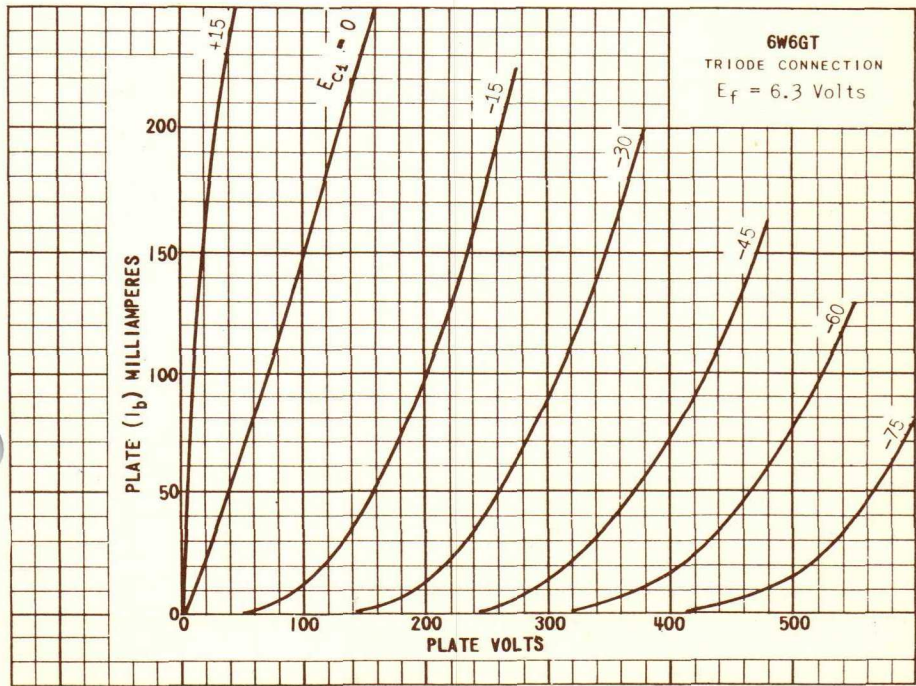
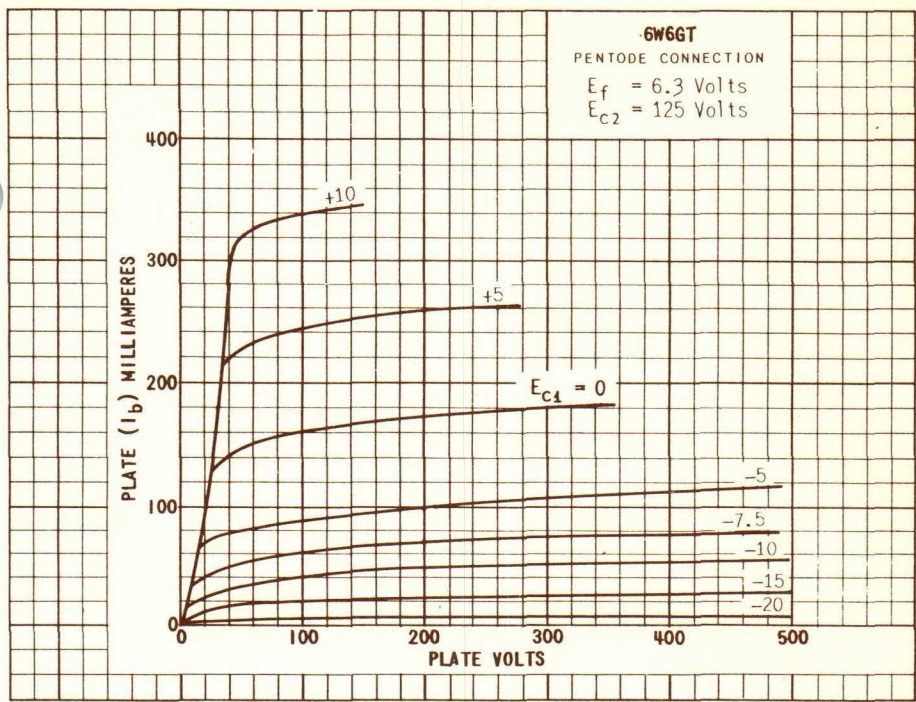
CLASS A1 AMPLIFIER - SINGLE TUBE

PLATE VOLTAGE	110	200	VOLTS
GRID 2 VOLTAGE	110	125	VOLTS
GRID 1 VOLTAGE	-7.5	----	VOLTS
CATHODE BIAS RESISTOR	----	180	OHMS
PEAK AF GRID 1 VOLTAGE	7.5	8.5	VOLTS
PLATE RESISTOR (APPROX.)	13,000	28,000	OHMS
TRANSCONDUCTANCE	8,000	8,000	μ MHOS
ZERO-SIGNAL PLATE CURRENT	49	46	MA.
MAXIMUM-SIGNAL PLATE CURRENT (APPROX.)	50	47	MA.
ZERO-SIGNAL GRID 2 CURRENT	4.0	2.2	MA.
MAXIMUM-SIGNAL GRID 2 CURRENT (APPROX.)	10	8.5	MA.
LOAD RESISTANCE	2,000	4,000	OHMS
TOTAL HARMONIC DISTORTION	10	10	PERCENT
POWER OUTPUT	2.1	3.8	WATTS

TRIODE CONNECTION

PLATE VOLTAGE	225	VOLTS
GRID VOLTAGE	-30	VOLTS
AMPLIFICATION FACTOR	6.2	
PLATE RESISTANCE (APPROX.)	1,600	OHMS
TRANSCONDUCTANCE	3,800	μ MHOS
PLATE CURRENT	22	MA.
GRID VOLTAGE FOR $I_b=0.5$ MA. (APPROX.)	-42	VOLTS

^A TRIODE CONNECTION - GRID #2 TIED TO PLATE.^B FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN 'STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION'. THE DUTY CYCLE OF THE VOLTAGE PULSE NOT TO EXCEED 15 PERCENT OF A SCANNING CYCLE.



PRINTED IN U. S. A.

PLATE
2553
JAN. 1
1951

6W6GT

