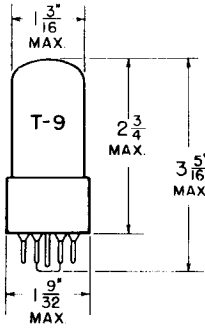


## TUNG-SOL

## BEAM PENTODE



GLASS BULB

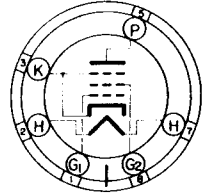
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 1.2 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

INTERMEDIATE SHELL  
6 PIN OCTAL

6CK

THE 6AV5GT IS A BEAM POWER AMPLIFIER INTENDED PRIMARILY FOR OPERATION WITH RELATIVELY LOW SUPPLY VOLTAGE AS A HORIZONTAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. IT IS DESIGNED TO WITHSTAND HIGH-SURGE PLATE VOLTAGES FOR RELATIVELY SHORT PERIODS OF TIME. IT CAN BE USED WITH DIRECT OR WITH TRANSFORMER HORIZONTAL-YOKE DRIVE.

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD WR-210

## HORIZONTAL DEFLECTION AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS	
MAXIMUM HEATER-CATHODE VOLTAGE	180	VOLTS	←
MAXIMUM PLATE SUPPLY VOLTAGE	550	VOLTS	←
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE <sup>AB</sup>	5 500	VOLTS	←
MAXIMUM GRID #2 VOLTAGE	200	VOLTS	←
MAXIMUM GRID #1 VOLTAGE	-100	VOLTS	←
MAXIMUM PEAK NEGATIVE PULSE GRID #1 VOLTAGE <sup>A</sup>	-400	VOLTS	←
MAXIMUM PLATE DISSIPATION	11	WATTS	
MAXIMUM GRID #2 DISSIPATION	2.5	WATTS	
MAXIMUM PLATE CURRENT	100	MA.	
MAXIMUM GRID #1 CIRCUIT RESISTANCE <sup>C</sup>	1	MEGOHM	

<sup>A</sup> THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE AND THE DURATION OF THE PULSE MUST BE LIMITED TO 10 MICROSECONDS.

<sup>B</sup> VALUE GIVEN IS TO BE CONSIDERED AS THE ABSOLUTE VOLTAGE BEYOND WHICH THE SERVICEABILITY OF THE TUBE MAY BE IMPAIRED.

<sup>C</sup> THE USE OF A CATHODE RESISTOR OR OTHER SUITABLE PROTECTIVE DEVICE IS NECESSARY TO PROTECT THE TUBE IN EVENT OF LOSS OF EXCITATION AND CONSEQUENT LOSS OF DEVELOPED BIAS.

CONTINUED ON FOLLOWING PAGE

← INDICATES A CHANGE OR ADDITION.

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	1.2	AMP.
PLATE VOLTAGE	250	VOLTS
GRID #2 VOLTAGE	150	VOLTS
GRID #1 VOLTAGE	-22.5	VOLTS
TRANSCONDUCTANCE	5 800	μMHOS
PLATE CURRENT	55	MA.
GRID #2 CURRENT	2.1	MA.
GRID #2 TO GRID #1 AMPLIFICATION FACTOR <sup>D</sup>	4.5	

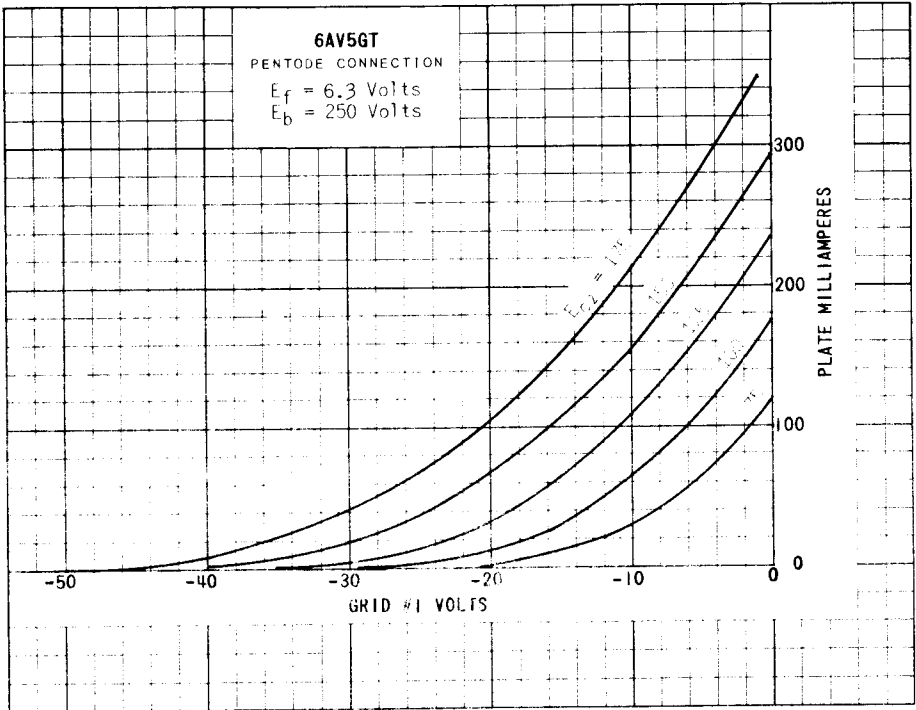
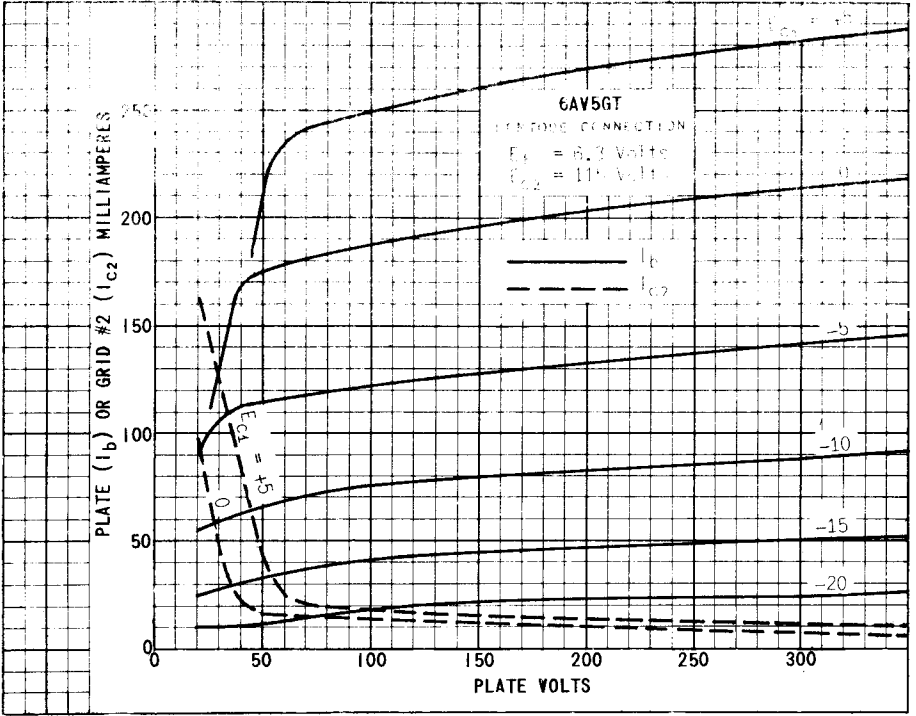
<sup>D</sup> TRIODE CONNECTION (SCREEN TIED TO PLATE) WITH  $E_b = E_{c2} = 150$  VOLTS AND  $E_{c1} = -22.5$  VOLTS.

## HORIZONTAL DEFLECTION AMPLIFIER

	8AP4A	12KP4A	16KP4	
HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	1.2	1.2	1.2	AMP.
TOTAL PLATE VOLTAGE	240	370	410	VOLTS
PLATE SUPPLY VOLTAGE	150	250	250	VOLTS
BOOST VOLTAGE	90	120	160	VOLTS
GRID #2 SUPPLY VOLTAGE	150	250	—	VOLTS
GRID #2 RESISTOR	1000	10 000	—	OHMS
GRID #2 VOLTAGE	135	165	122	VOLTS
CATHODE BIAS RESISTOR	0	0	0	OHMS
GRID #1 RESISTOR	0.22	0.47	1	MEGOHM
PEAK-TO-PEAK GRID SIGNAL VOLTAGE (APPROX.)	90	90	220	VOLTS
PEAK POSITIVE PULSE PLATE VOLTAGE (APPROX.)	2.9	3.6	4.3	KV.
PLATE CURRENT	84	89	87	MA.
GRID #2 CURRENT	15	8.5	15	MA.
GRID #1 CURRENT	66	40	64	μA.
PICTURE TUBE ANODE VOLTAGE	8.7 <sup>E</sup>	10.8 <sup>F</sup>	12.8 <sup>F</sup>	KV.
DEFLECTION ANGLE	54	54	65	DEGREES
SWEEP WIDTH	7 3/4	11 1/2	13 1/2	INCHES

<sup>E</sup> MEASURED WITH 75 MICROAMPERES TOTAL PICTURE TUBE DRAIN.

<sup>F</sup> MEASURED WITH 100 MICROAMPERES TOTAL PICTURE TUBE DRAIN.



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PLATE 2622  
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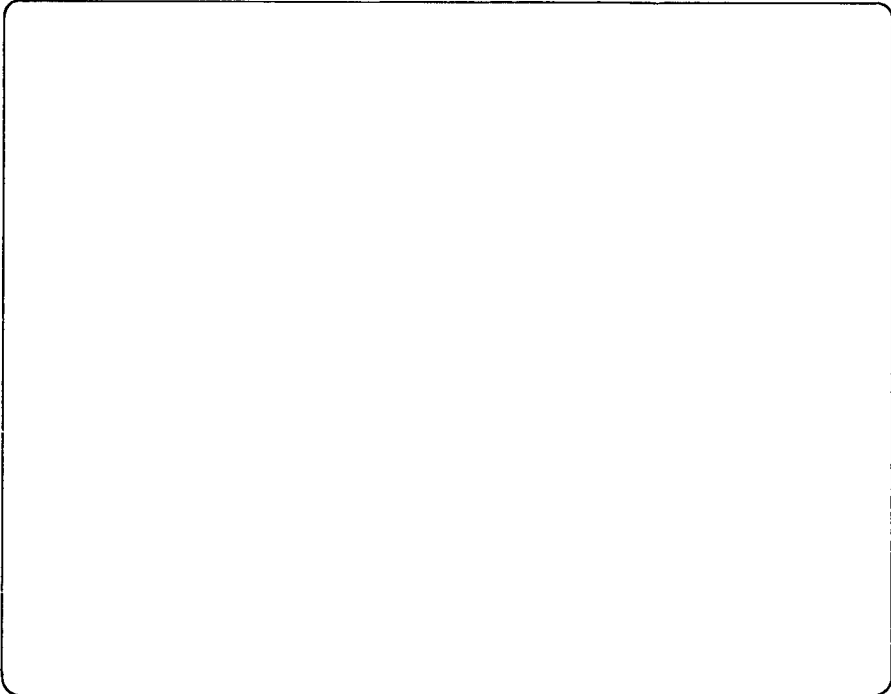
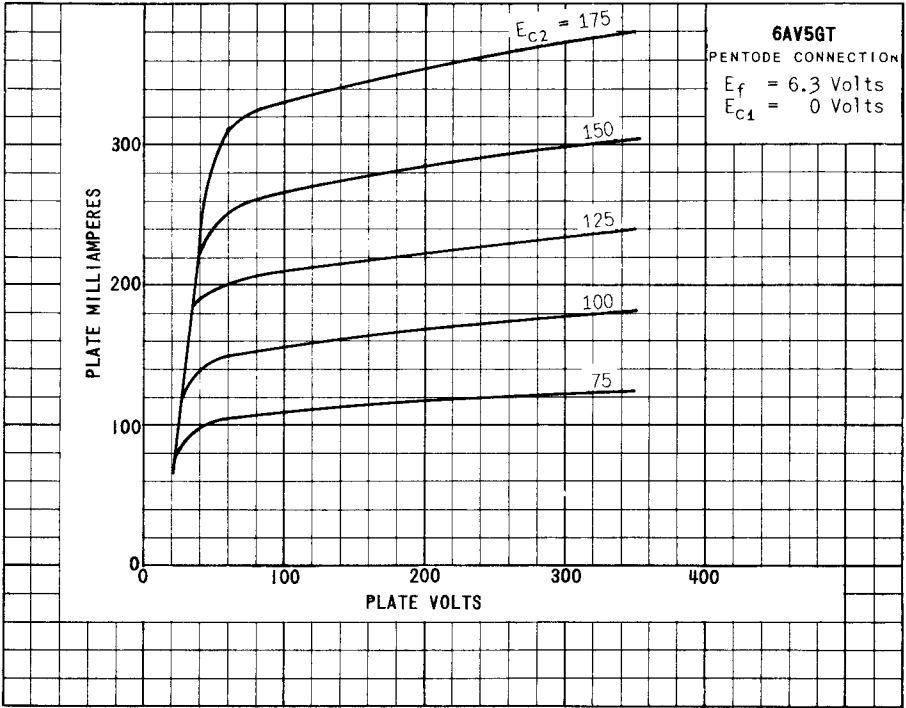


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