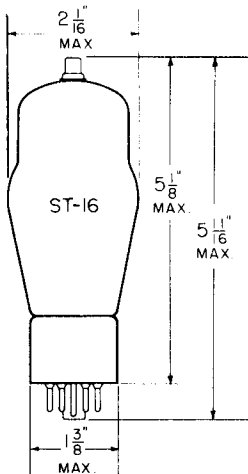


TUNG-SOL

BEAM PENTODE



GLASS BULB  
SMALL CAP

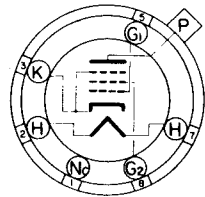
COATED UNIPOTENTIAL CATHODE

HEATER

18.9 VOLTS .300 AMPERE  
AC OR DC

MOUNTING POSITION

VERTICAL - BASE UP OR  
DOWN.  
HORIZONTAL - PLANE OF  
PINS 2&7 VERTICAL.



BOTTOM VIEW  
MEDIUM SHELL  
6 PIN OCTAL  
58T

THE 19BG6G IS ESSENTIALLY A MECHANICAL REDESIGN OF TYPE 6L6G TO PERMIT OPERATION AS A HORIZONTAL DEFLECTION AMPLIFIER FOR TELEVISION SERVICE. IT USES A TOP CAP CONNECTION AND ADDITIONAL INSULATION FOR THE PLATE STRUCTURE TO WITHSTAND THE HIGH PEAK PLATE VOLTAGE ENCOUNTERED IN SUCH CIRCUITS.

DIRECT INTERELECTRODE CAPACITANCES  
WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G <sub>1</sub> TO P) MAX.	0.65	μuf
INPUT: G <sub>1</sub> TO (H+K&G <sub>3</sub> +G <sub>2</sub> )	11	μuf
OUTPUT: P TO (H+K&G <sub>3</sub> +G <sub>2</sub> )	6.5	μuf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD W8-210

HEATER VOLTAGE	18.9	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	250	VOLTS
MAXIMUM DC PLATE VOLTAGE	500	VOLTS
MAXIMUM DC GRID #2 VOLTAGE <sup>A</sup>	350	VOLTS
MAXIMUM DC GRID #1 VOLTAGE	-50	VOLTS
MAXIMUM PLATE DISSIPATION	20	WATTS
MAXIMUM DC PLATE CURRENT	100	MA.
MAXIMUM PEAK POSITIVE SURGE PLATE VOLTAGE <sup>B</sup>	6 000	VOLTS
MAXIMUM PEAK NEGATIVE SURGE GRID #1 VOLTAGE	-400	VOLTS
MAXIMUM GRID #2 DISSIPATION	3.2	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1	MEG OHM

<sup>A</sup> PREFERABLY OBTAINED FROM PLATE-VOLTAGE SUPPLY THROUGH A SERIES DROPPING RESISTOR OF SUFFICIENT MAGNITUDE TO LIMIT THE GRID #2 INPUT TO THE RATED MAXIMUM VALUE FOR WIDE VARIATION IN GRID #2 CURRENT.

<sup>B</sup> THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 1% OF ONE SCANNING CYCLE AND ITS DURATION MUST BE LIMITED TO TEN MICROSECONDS.

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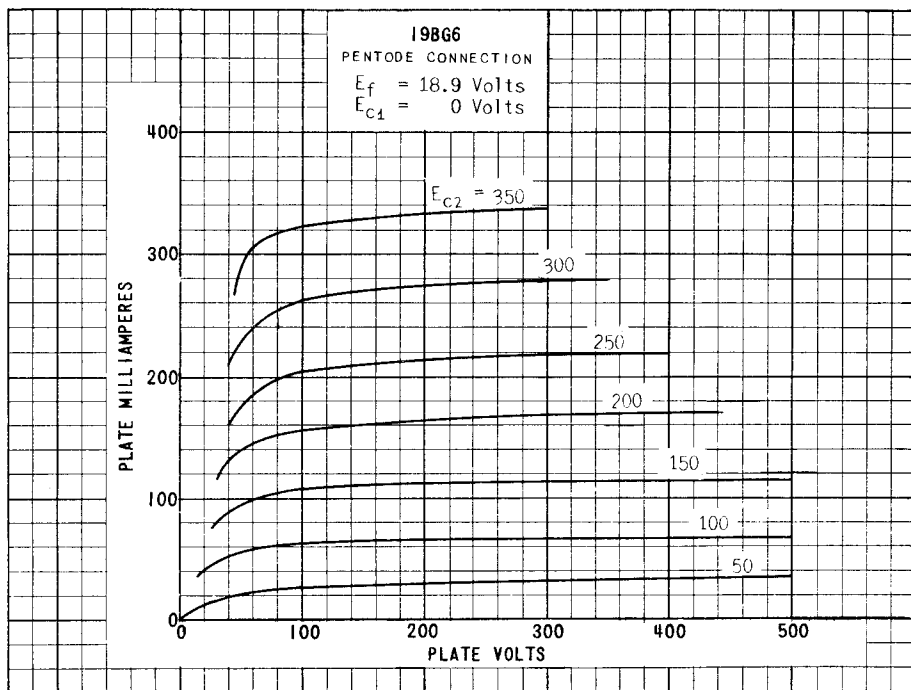
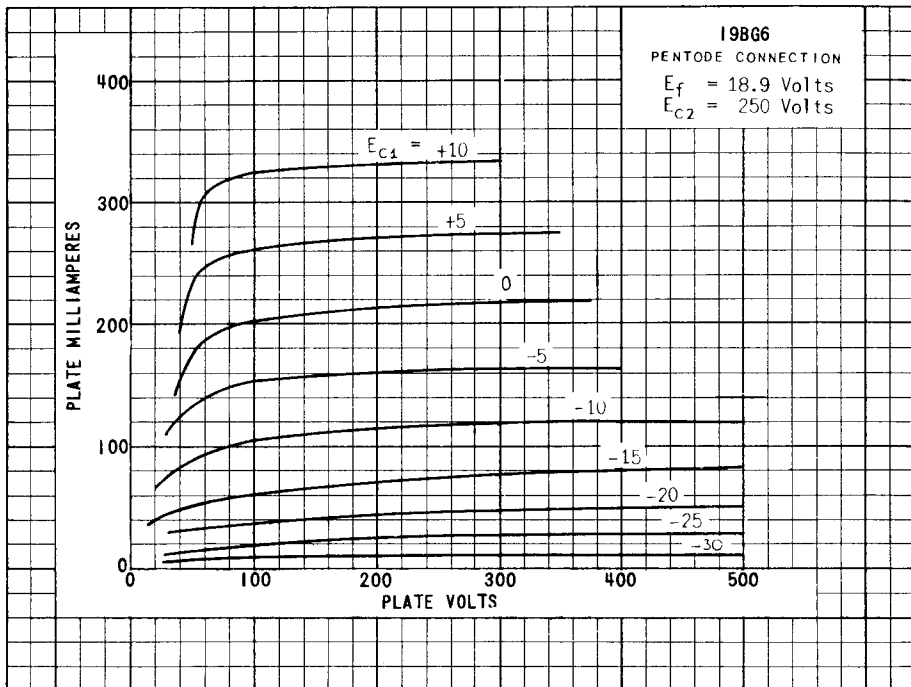
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## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## HORIZONTAL DEFLECTION CIRCUIT

HEATER VOLTAGE	18.9	VOLTS
HEATER CURRENT	300	AMP.
PLATE & GRID #2 SUPPLY VOLTAGE	400	VOLTS
PEAK POSITIVE SURGE PLATE VOLTAGE (APPROX.)	4 000	VOLTS
PEAK NEGATIVE SURGE GRID #1 VOLTAGE (APPROX.)	-100	VOLTS
PLATE CURRENT	70	MA.
GRID #2 CURRENT	6	MA.
GRID #1 CURRENT	25	UAMP

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# 19BG6G

19BG6  
PENTODE CONNECTION  
 $E_f = 18.9$  Volts  
 $E_{c1} = 0$  Volts

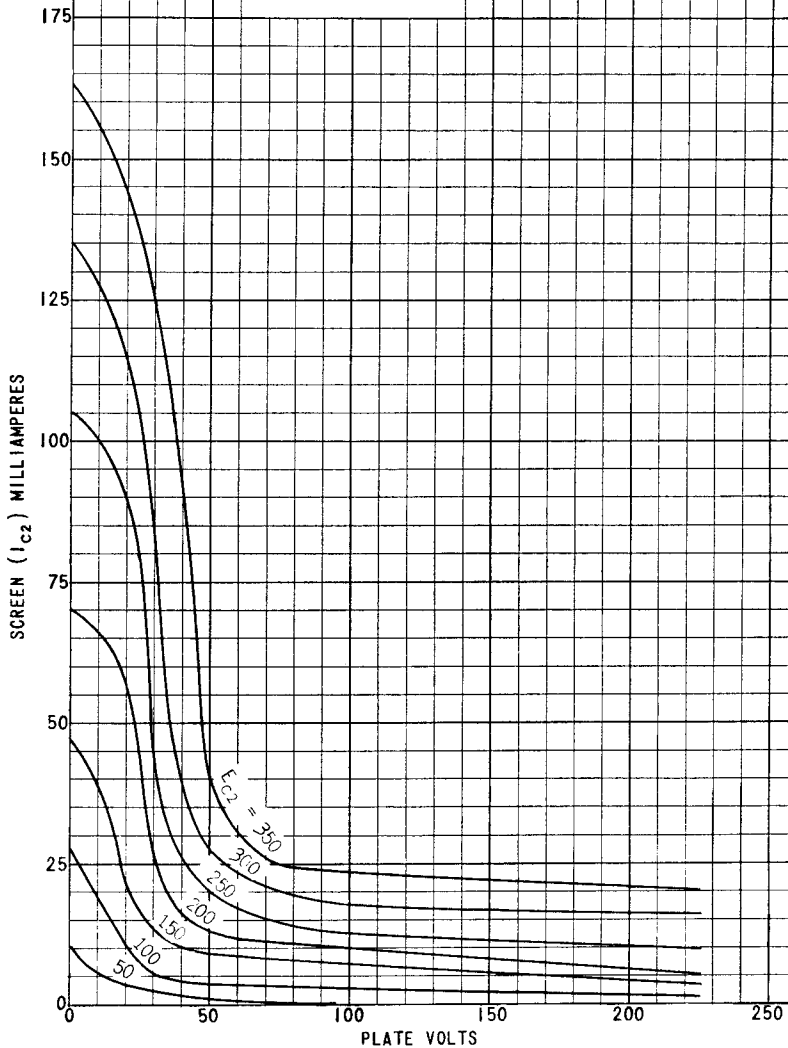


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