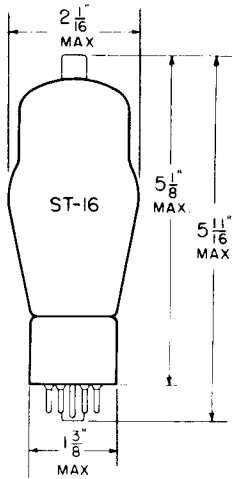


**TUNG-SOL**

BEAM PENTODE



GLASS BULB  
SMALL CAP

COATED UNIPOTENTIAL CATHODE

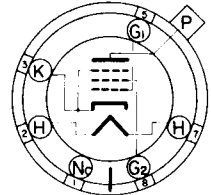
HEATER

6.3 VOLTS 2.5 AMP.

AC OR DC

MOUNTING POSITION

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



BOTTOM VIEW

INTERMEDIATE SHELL  
6 PIN OCTAL

58T

THE 6CD6G IS A HIGH PERVEANCE, BEAM POWER AMPLIFIER DESIGNED FOR USE AS A HORIZONTAL DEFLECTION AMPLIFIER IN HIGH EFFICIENCY DEFLECTION CIRCUITS OF TELEVISION RECEIVERS. IT IS PARTICULARLY ADAPTABLE TO DRIVE CATHODE RAY PICTURE TUBES WHICH REQUIRE WIDE ANGLE DEFLECTION.

**DIRECT INTERELECTRODE CAPACITANCES**

WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G <sub>1</sub> TO P) MAX.	1	μf
INPUT: G <sub>1</sub> TO (H+K+G <sub>3</sub> +G <sub>2</sub> )	26	μf
OUTPUT: P TO (H+K+G <sub>3</sub> +G <sub>2</sub> )	10	μf

**RATINGS**

INTERPRETED ACCORDING TO RMA STANDARD M8-210  
FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM<sup>A</sup>

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	135	VOLTS
MAXIMUM DC PLATE VOLTAGE	700	VOLTS
MAXIMUM PEAK POSITIVE-PULSE PLATE VOLTAGE	6000	VOLTS
MAXIMUM PEAK NEGATIVE-PULSE PLATE VOLTAGE	-1500	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	175	VOLTS
MAXIMUM DC GRID #1 VOLTAGE	-50	VOLTS
MAXIMUM PEAK NEGATIVE-PULSE GRID #1 VOLTAGE	-150	VOLTS
MAXIMUM DC PLATE CURRENT	170	MA.
MAXIMUM PLATE DISSIPATION	15	WATTS
MAXIMUM GRID #2 INPUT	3	WATTS
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT)	210	°C
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1	MEGOHM

<sup>A</sup>AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS," FEDERAL COMMUNICATIONS COMMISSION.

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## TUNG-SOL

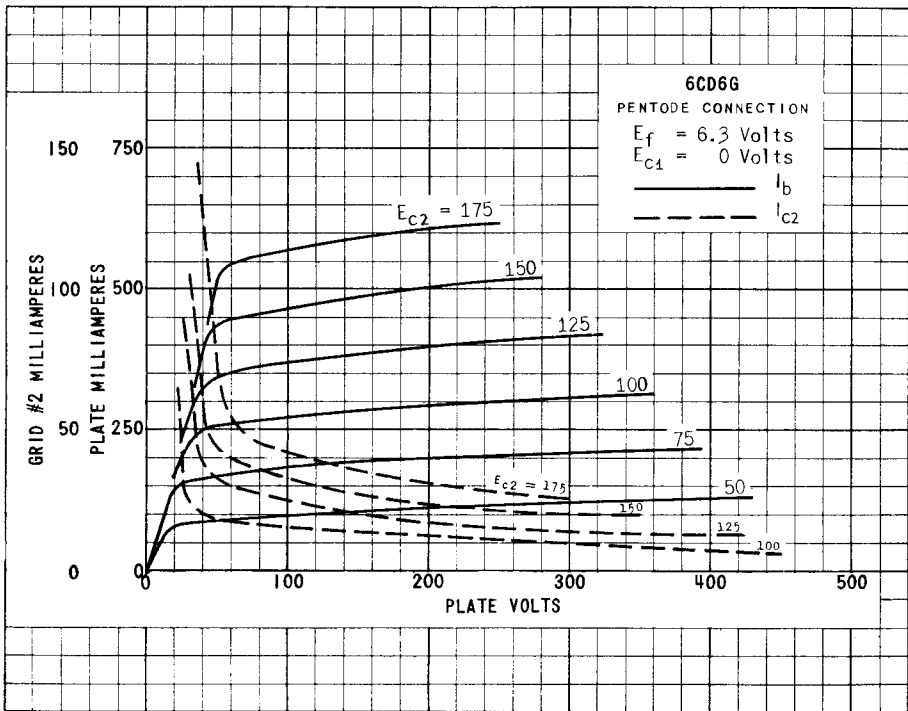
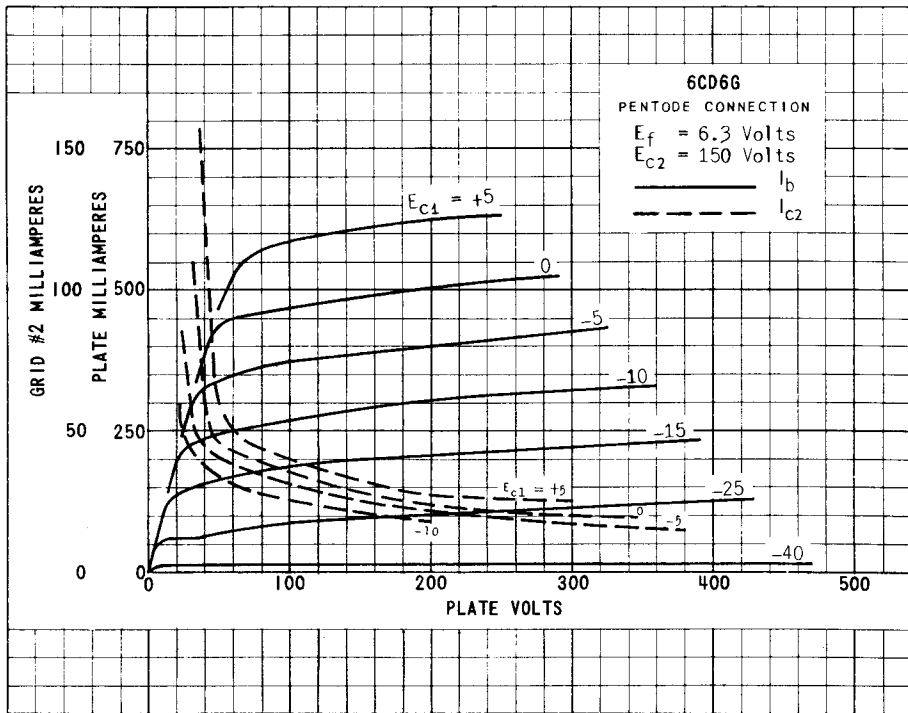
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## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## HORIZONTAL DEFLECTION AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	2.5	AMP.
DC PLATE SUPPLY VOLTAGE:		
FROM DC POWER SUPPLY <sup>B</sup>	350	VOLTS
FROM DC BOOSTS SUPPLIED BY 6W4GT (APPROX.)	150	VOLTS
TOTAL SUPPLY VOLTAGE (APPROX.) <sup>C</sup>	500	VOLTS
GRID #2 VOLTAGE	170	VOLTS
CATHODE BIAS RESISTOR	300	OHMS
GRID #1 INPUT VOLTAGE:		
PEAK-TO-PEAK SAWTOOTH-COMPONENT	75	VOLTS
NEGATIVE PEAKING COMPONENT	55	VOLTS
DC PLATE CURRENT	90	MA.
DC GRID #2 CURRENT	15.5	MA.
PEAK POSITIVE-PULSE PLATE OUTPUT VOLTAGE (APPROX.):		
FOR KINESCOPE ANODE CURRENT OF 0.1A.	5500	VOLTS

<sup>B</sup> MEASURED TO GROUND.<sup>C</sup> MEASURED TO CATHODE AND IS PREFERABLY OBTAINED THROUGH A SERIES DROPPING RESISTOR FOR SUFFICIENT VALUE TO LIMIT THE GRID #2 INPUT TO THE RATED MAXIMUM VALUE.



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