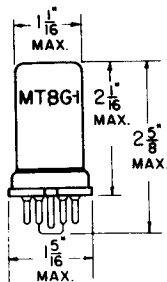


## TUNG-SOL

## PENTODE



METAL SHELL

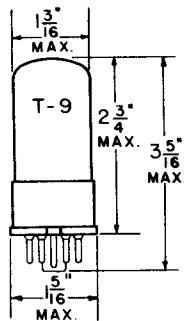
COATED UNIPOTENTIAL CATHODE

HEATER

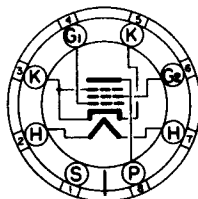
6.3 VOLTS 300 MA.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW

SMALL WAFER  
8 PIN OCTAL

THE 6SG7, 6SG7GT IS A SEMI-REMOTE CUT OFF PENTODE VOLTAGE AMPLIFIER IN THE OCTAL METAL (GLASS) CONSTRUCTION. IT FEATURES HIGH TRANSCONDUCTANCE WITH LOW GRID-PLATE CAPACITANCE AND A DUAL CATHODE CONNECTION TO MINIMIZE EFFECTS OF COMMON CATHODE CIRCUIT COUPLING.

## DIRECT INTERELECTRODE CAPACITANCES

	6SG7 <sup>A</sup>	6SG7GT <sup>B</sup>	
GRID TO PLATE: (G TO P) MAX.	0.003	0.035	μμf
INPUT: G <sub>1</sub> TO (H+K&G <sub>3</sub> +G <sub>2</sub> )	8.5	8.5	μμf
OUTPUT: P TO (H+K&G <sub>3</sub> +G <sub>2</sub> )	7	7	μμf

A WITH SHELL CONNECTED TO CATHODE.

B WITH EXTERNAL SHIELD CONNECTED TO CATHODE.

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	200	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	300	VOLTS
MINIMUM EXTERNAL GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	3	WATTS
MAXIMUM GRID #2 DISSIPATION	0.6	WATT

## TUNG-SOL

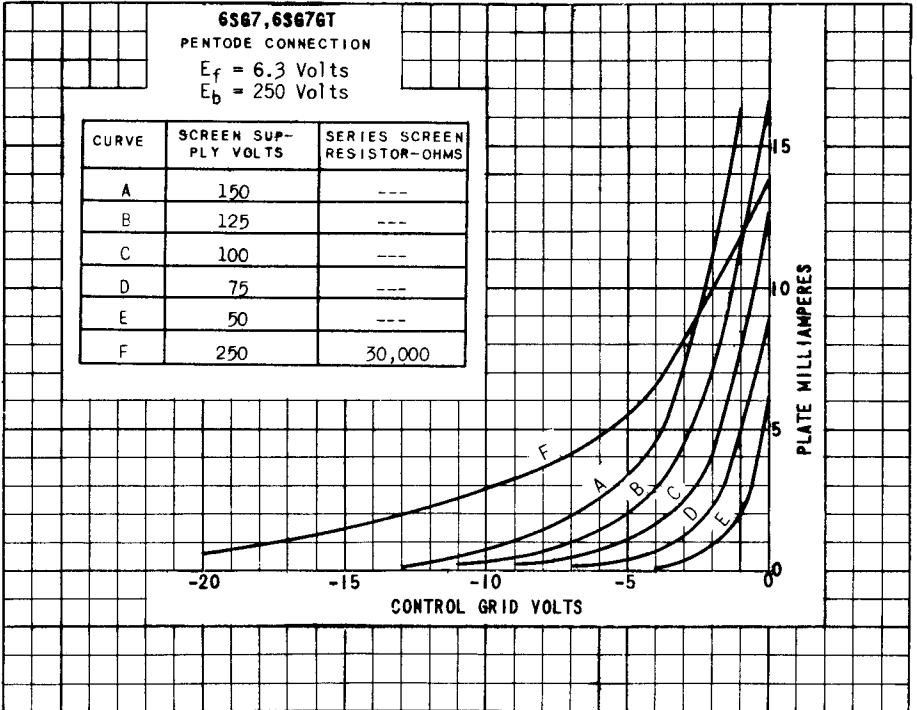
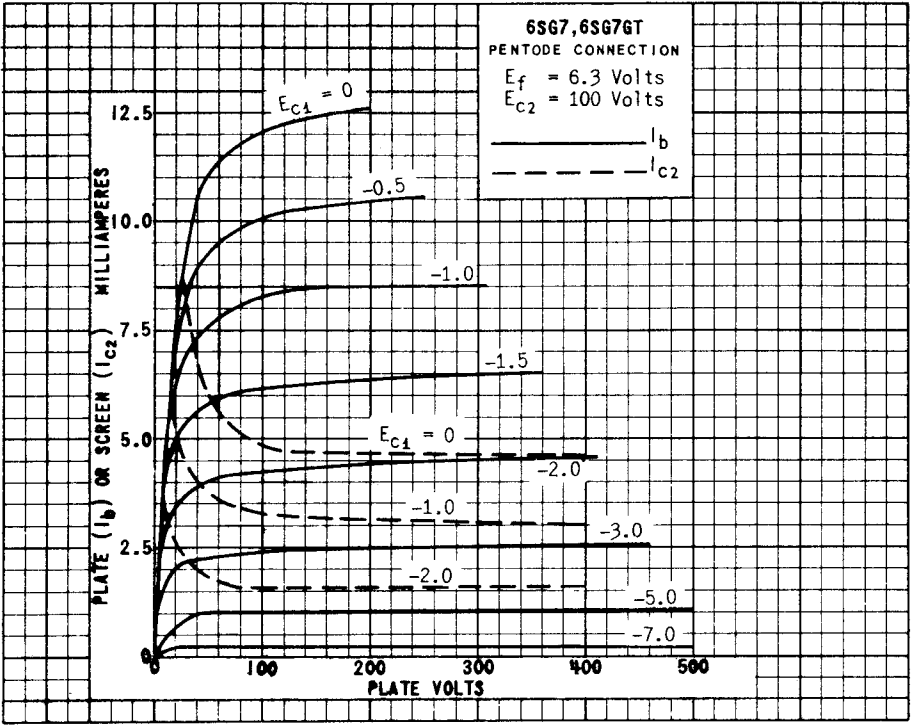
CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	300	300	300	MA.
PLATE VOLTAGE	100	250	250	VOLTS
GRID #2 VOLTAGE	100	125	150	VOLTS
GRID #1 VOLTAGE	-1	-1	-2.5	VOLTS
SELF BIAS RESISTOR	90	60	190	OHMS
PLATE RESISTANCE (APPROX.)	0.25	0.9	<sup>c</sup>	MEGOHM
TRANSCONDUCTANCE	4100	4700	4000	μMHOS
PLATE CURRENT	8.2	11.8	9.2	MA.
GRID #2 CURRENT	3.2	4.4	3.4	MA.
GRID #1 VOLTAGE (APPROX.) FOR $g_m = 40 \mu\text{MHOS}$	-11.5	-14	-17.5	VOLTS

<sup>c</sup> GREATER THAN 1.0 MEGOHM.



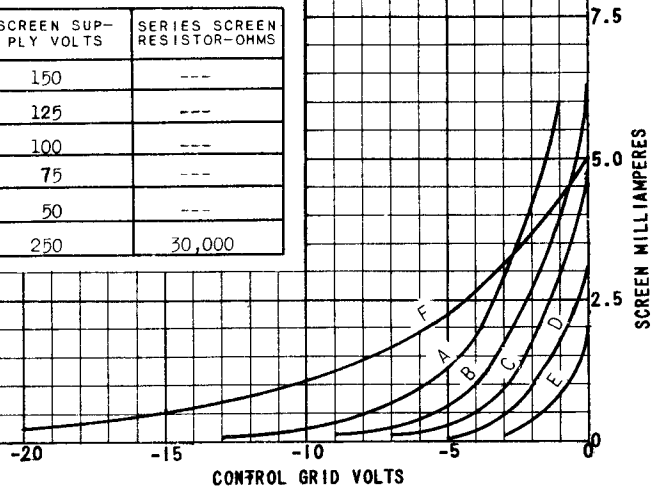
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PLATE 2055  
 AUG. 2, 1948

# 6SG7, 6SG7GT (12SG7)

**6SG7, 6SG7GT**  
 PENTODE CONNECTION  
 $E_f = 6.3$  Volts  
 $E_b = 250$  Volts

CURVE	SCREEN SUPPLY VOLTS	SERIES SCREEN RESISTOR-OHMS
A	150	---
B	125	---
C	100	---
D	75	---
E	50	---
F	250	30,000



**6SG7, 6SG7GT**  
 PENTODE CONNECTION  
 $E_f = 6.3$  Volts  
 $E_b = 250$  Volts

CURVE	SCREEN SUPPLY VOLTS	SERIES SCREEN RESISTOR-OHMS
A	150	---
B	125	---
C	100	---
D	75	---
E	50	---
F	250	30,000

