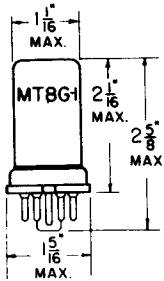


TUNG-SOL

PENTODE



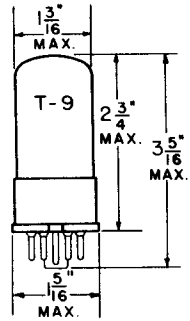
METAL SHELL

COATED UNIPOTENTIAL CATHODE

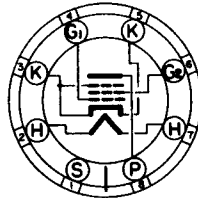
HEATER

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 ^A	6SG7GT ^B	
GRID TO PLATE: (G ₁ TO P) MAX.	0.003	0.035	μμf
INPUT: G ₁ TO (H+K&G ₃ +G ₂)	8.5	8.5	μμf
OUTPUT: P TO (H+K&G ₃ +G ₂)	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

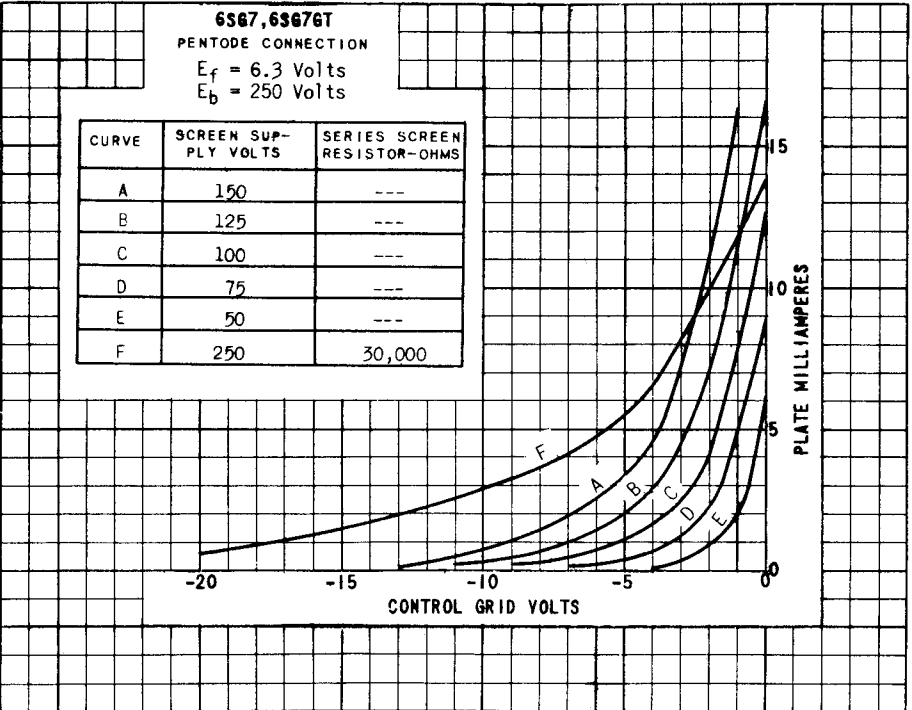
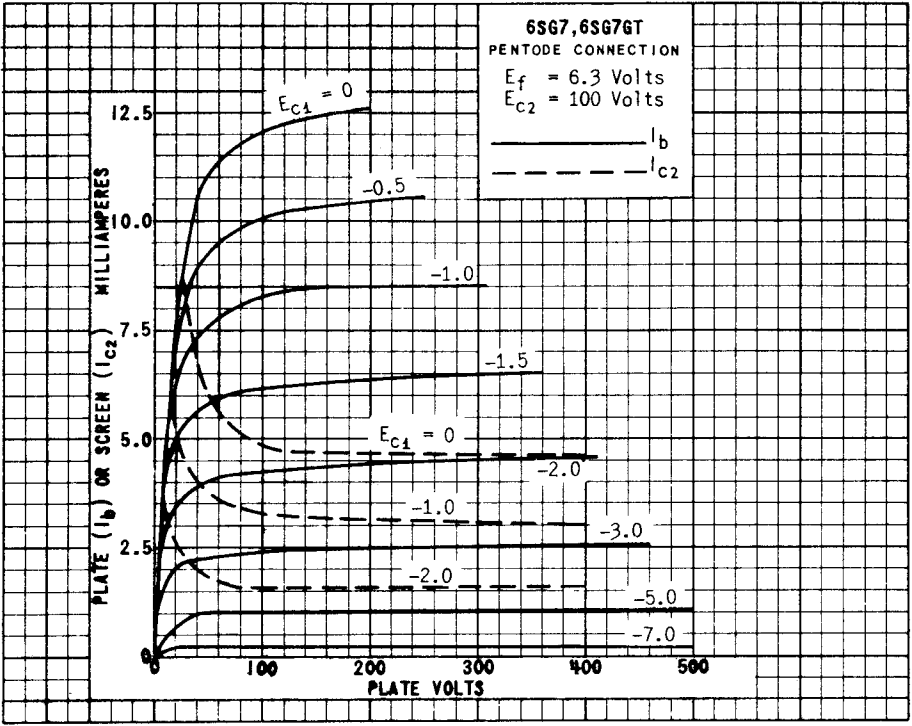
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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ 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	^c	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

^c GREATER THAN 1.0 MEGOHM.



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6SG7, 6SG7GT (12SG7)

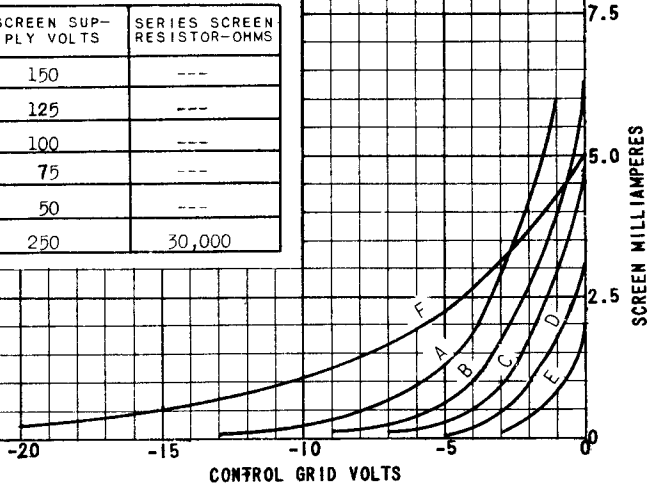
6SG7, 6SG7GT

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

