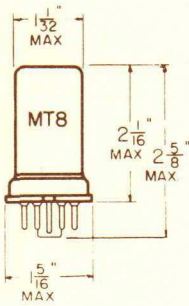


TUNG-SOL

PENTODE



METAL SHELL

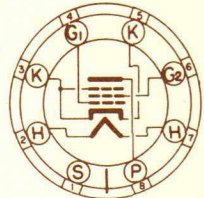
COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SMALL WAFER
8 PIN OCTAL

THE 12SG7 IS A SEMI-REMOTE CUT OFF PENTODE VOLTAGE AMPLIFIER IN THE OCTAL METAL 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

GRID TO PLATE: (G TO P) MAX.
INPUT: G_1 TO (H+K+ G_3 + G_2)
OUTPUT: P TO (H+K+ G_3 + G_2)

12SG7^A

0.003	μf
8.5	μf
7	μf

^A WITH SHELL CONNECTED TO CATHODE.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	12.6	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

PLATE
2064

AUG. 2,
1948

CONTINUED ON NEXT PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

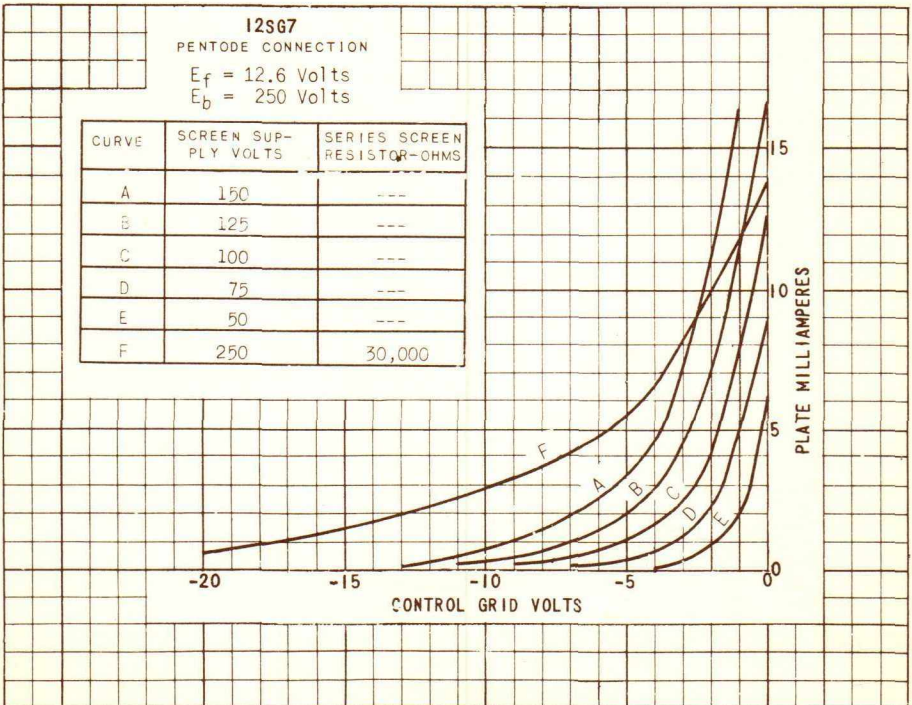
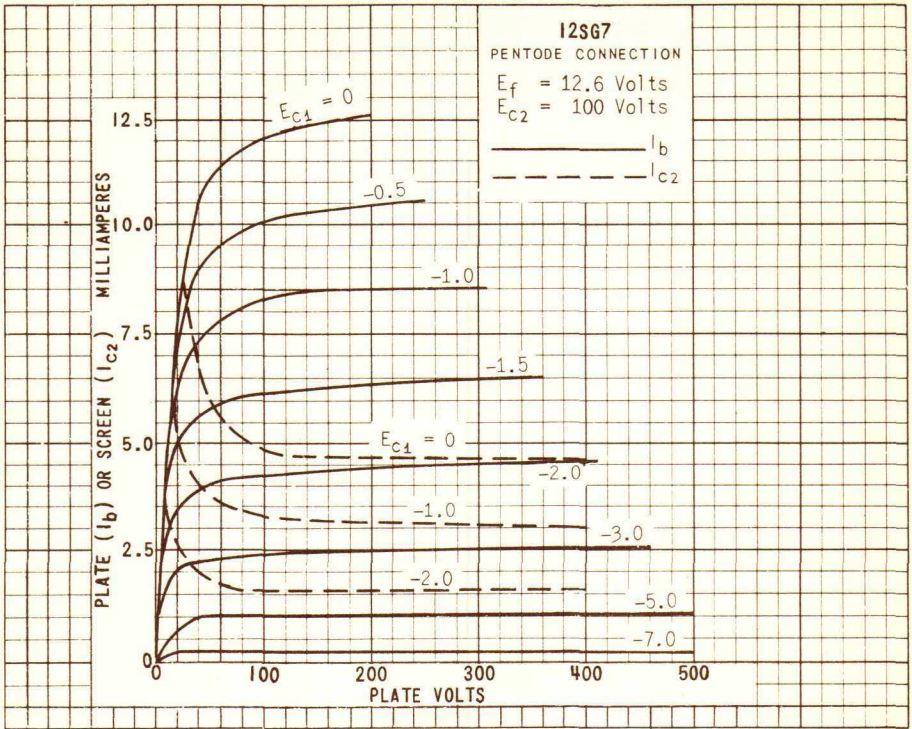
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE	12.6	12.6	12.6	VOLTS
HEATER CURRENT	150	150	150	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.

PLATE
2065
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12SG7(6SG7, 6SG7GT)

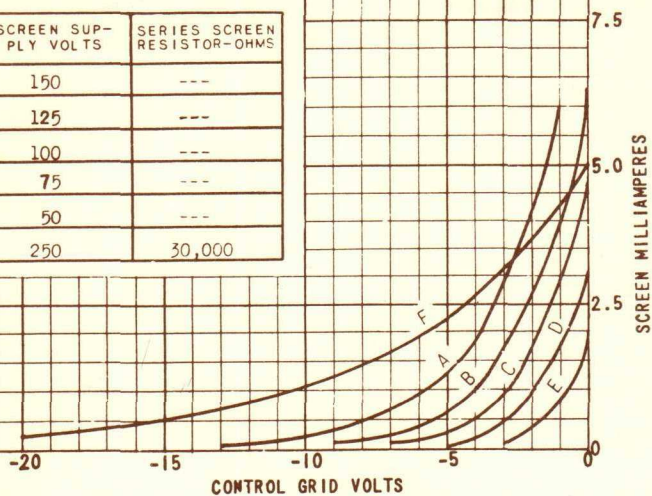
12SG7

PENTODE CONNECTION

$E_f = 12.6$ 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



12SG7

PENTODE CONNECTION

$E_f = 12.6$ 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

