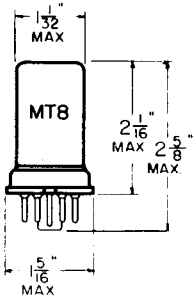
TUNG-SOL

PENTODE

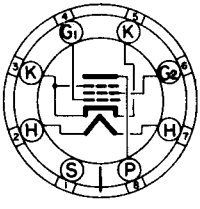


METAL SHELL

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

	12SG7[A]	
GRID TO PLATE: (G TO P) MAX.	0.003	μμf
INPUT: G_1 TO (H+K&G_3+G_2)	8.5	μμf
OUTPUT: P TO (H+K&G_3+G_2)	7	μμf

[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

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PLATE 2064
AUG. 2, 1948

CONTINUED ON NEXT PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 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 μMHOS	-11.5	-14	-17.5	VOLTS

[C] GREATER THAN 1.0 MEGOHM.

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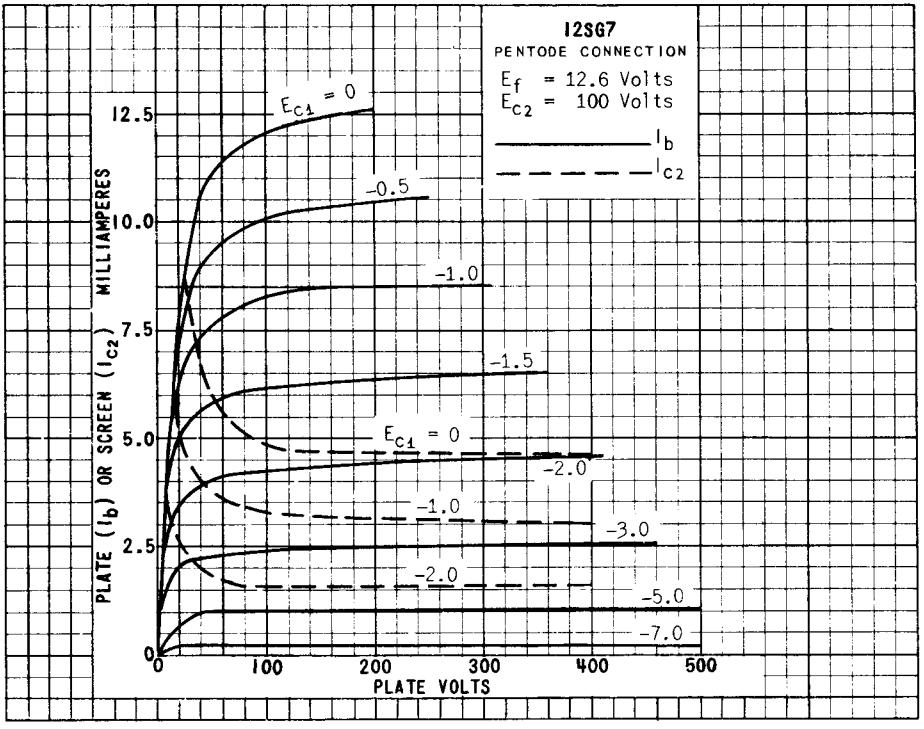
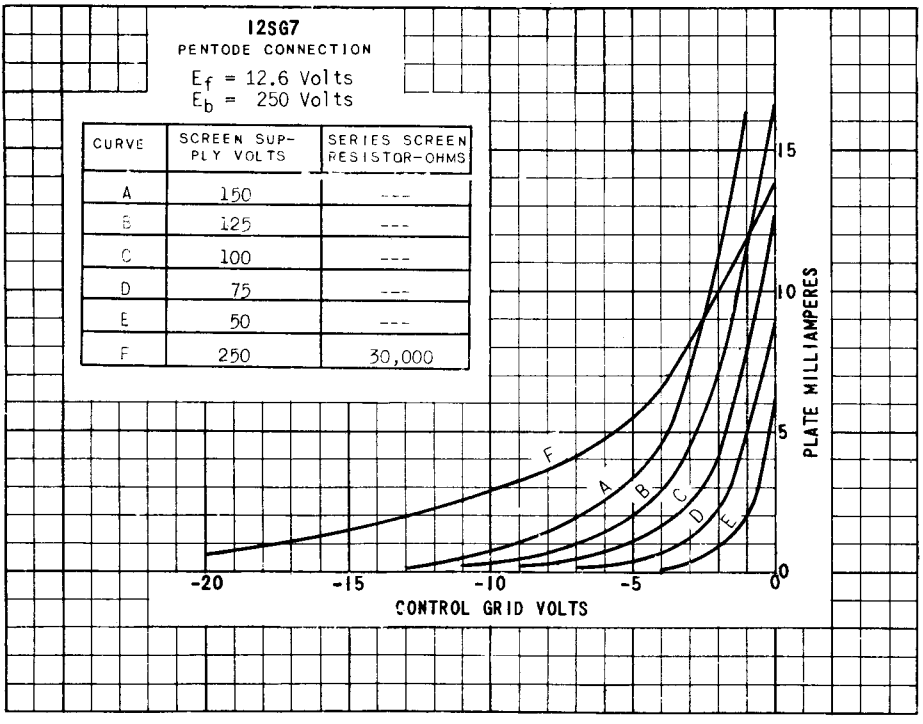
AUG. 2, 1948





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

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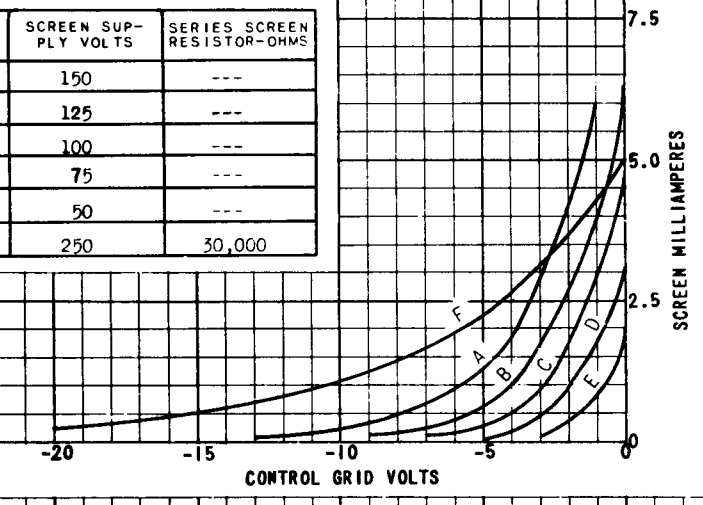
12SG7 (6SG7, 6SG7GT)

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

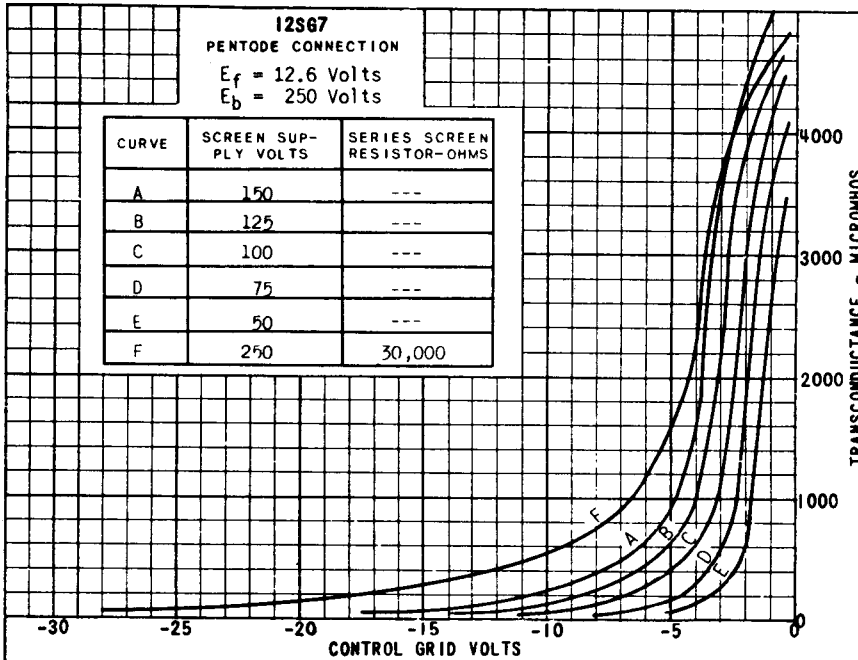


PLATE 2067
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