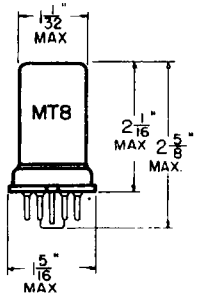
TUNG-SOL

PENTODE

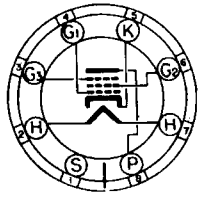
COATED UNIPOTENTIAL CATHODE

HEATER
12.6 VOLTS 150 MA.
AC OR DC

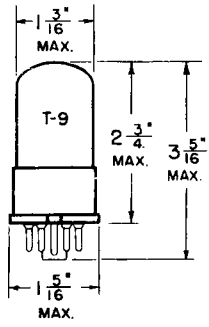
ANY MOUNTING POSITION



METAL SHELL



BOTTOM VIEW
SMALL WAFER
8 PIN OCTAL
8N



GLASS BULB

THE 12SJ7 AND 12SJ7GT ARE SINGLE ENDED RF PENTODES HAVING SHARP CUT-OFF CHARACTERISTICS. THEY ARE DESIGNED FOR USE AS GENERAL PURPOSE AMPLIFIERS, BIASED DETECTORS, RADIO FREQUENCY OSCILLATORS OR AS MIXER TUBES IN PROPERLY DESIGNED CIRCUITS.

DIRECT INTERELECTRODE CAPACITANCES

PIN #1 CONNECTED TO PIN #5

PENTODE CONNECTION:		
GRID #1 TO PLATE: G_1 TO P (MAX.)	0.005	μμf
INPUT: G_1 TO (H+K+G_2+G_3+S)	6	μμf
OUTPUT: P TO (H+K+G_2+G_3+S)	7	μμf
TRIODE CONNECTION: G_2 & G_3 TIED TO PLATE		
GRID TO PLATE: G TO (P+G_2+G_3)	2.8	μμf
INPUT: G_1 TO (H+K+S)	3.4	μμf
OUTPUT: P+G_2+G_3 TO (H+K+S)	11	μμf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

	TRIODE CONNECTION[A]	PENTODE CONNECTION	
HEATER VOLTAGE	12.6	12.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	150	150	VOLTS
MAXIMUM PLATE VOLTAGE	250	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	PLATE	SEE J5-C4	
MAXIMUM GRID #2 SUPPLY VOLTAGE	PLATE	300	VOLTS
MAXIMUM GRID #3 VOLTAGE PIN #3 CONNECTED TO	PLATE	CATHODE	
MAXIMUM PLATE DISSIPATION	2.5	2.5	WATTS
MAXIMUM GRID #2 DISSIPATION	---	0.4	WATTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	0	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE	1	1	MEGOHM

[A] GRID #2 AND GRID #3 CONNECTED TO PLATE.

CONTINUED ON FOLLOWING PAGE

PLATE
2980
JULY 1
1952

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER – PENTODE UNIT

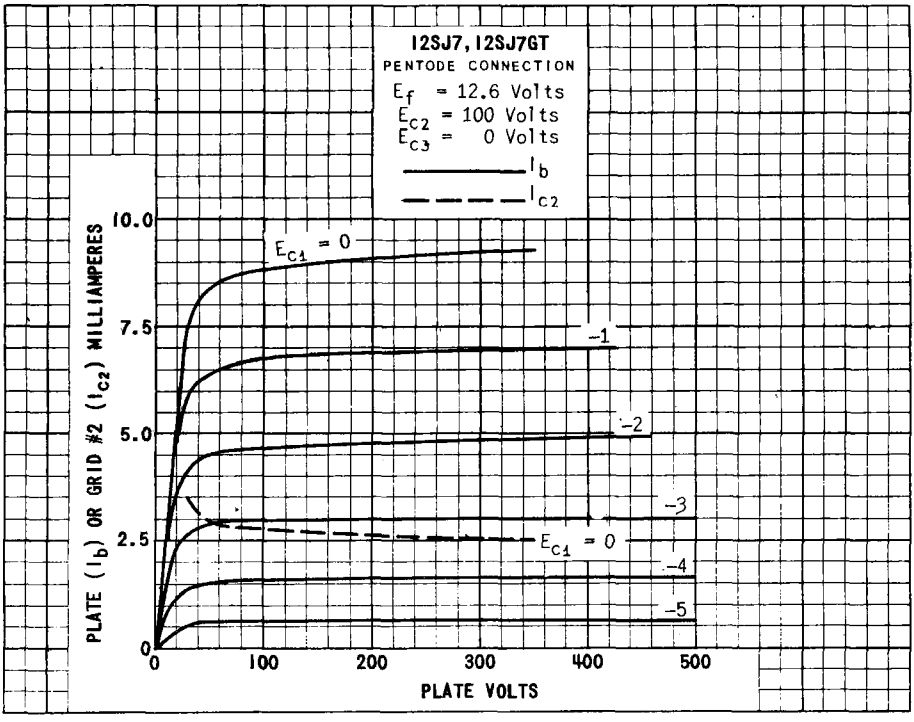
HEATER VOLTAGE	12.6	12.6	VOLTS
HEATER CURRENT	300	300	MA.
PLATE VOLTAGE	100	250	VOLTS
GRID #2 VOLTAGE	100	100	VOLTS
GRID #1 VOLTAGE	−3	−3	VOLTS
GRID #3 VOLTAGE	PIN #3 CONNECTED TO PIN #5 AT SOCKET		
TRANSCONDUCTANCE	1 575	1 650	μMHOS
PLATE RESISTANCE	0.7	1	MEGOHM
PLATE CURRENT	2.9	3	MA.
GRID #2 CURRENT	0.9	0.8	MA.
GRID #1 VOLTAGE FOR I_b = 10 μA. (APPROX.)	−8	−8	VOLTS

CLASS A_1 AMPLIFIER – TRIODE UNIT[B]

HEATER VOLTAGE	12.6	12.6	VOLTS
HEATER CURRENT	150	150	MA.
PLATE VOLTAGE	180	250	VOLTS
GRID #2 VOLTAGE	PLATE	PLATE	
GRID #3 VOLTAGE	PLATE	PLATE	
GRID #1 VOLTAGE	−6	−8.5	VOLTS
TRANSCONDUCTANCE	2 300	2 500	μMHOS
PLATE RESISTANCE	8 200	7 600	OHMS
AMPLIFICATION FACTOR	19	19	
PLATE CURRENT	6	9.2	MA.

[B] GRID #2, GRID #3 CONNECTED TO PLATE.

PLATE 2981
JULY 1 1952



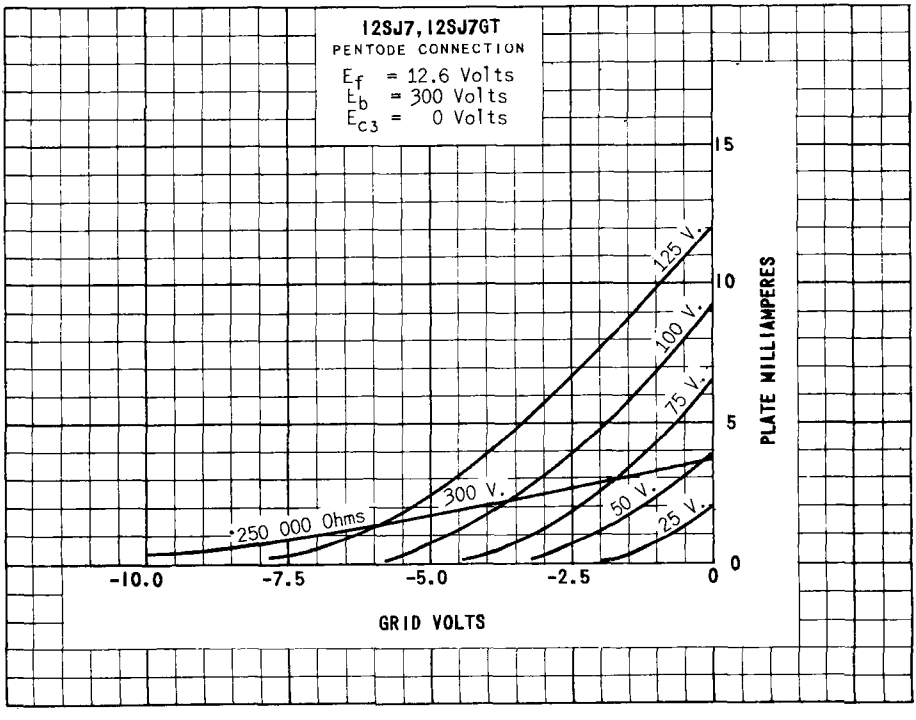


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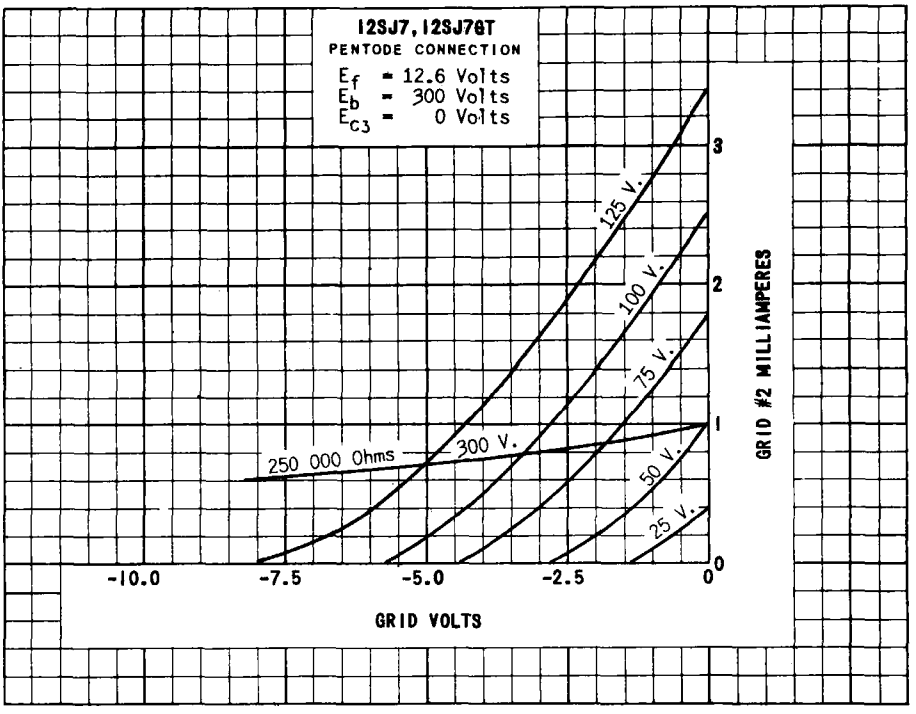
PLATE
2982
JULY 1
1952

12SJ7, 12SJ7GT (6SJ7GT, 6SJ7GT)



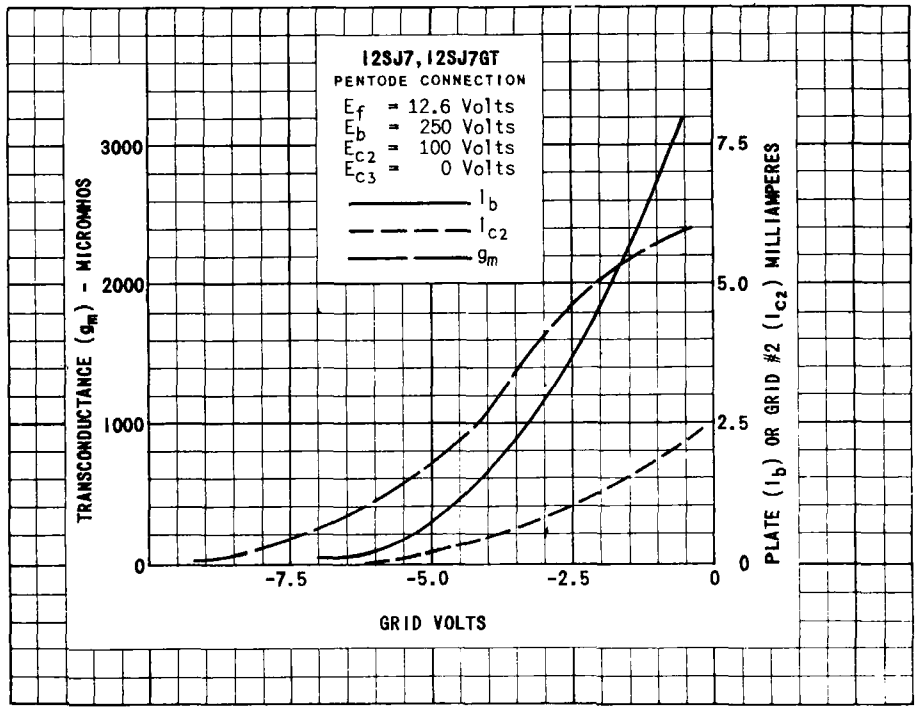
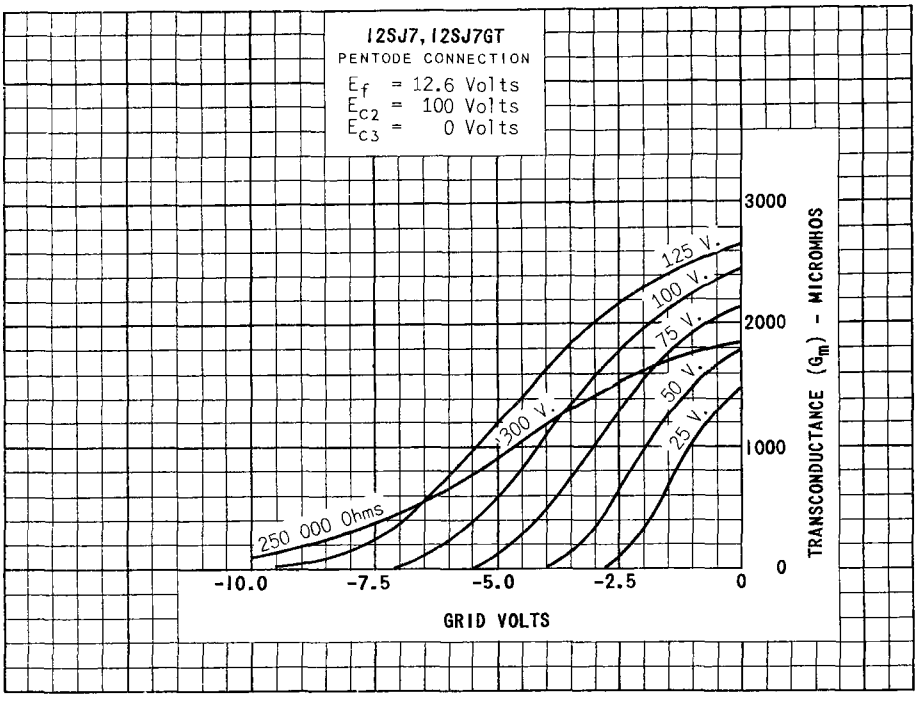


PLATE 2983
JULY 1 1952



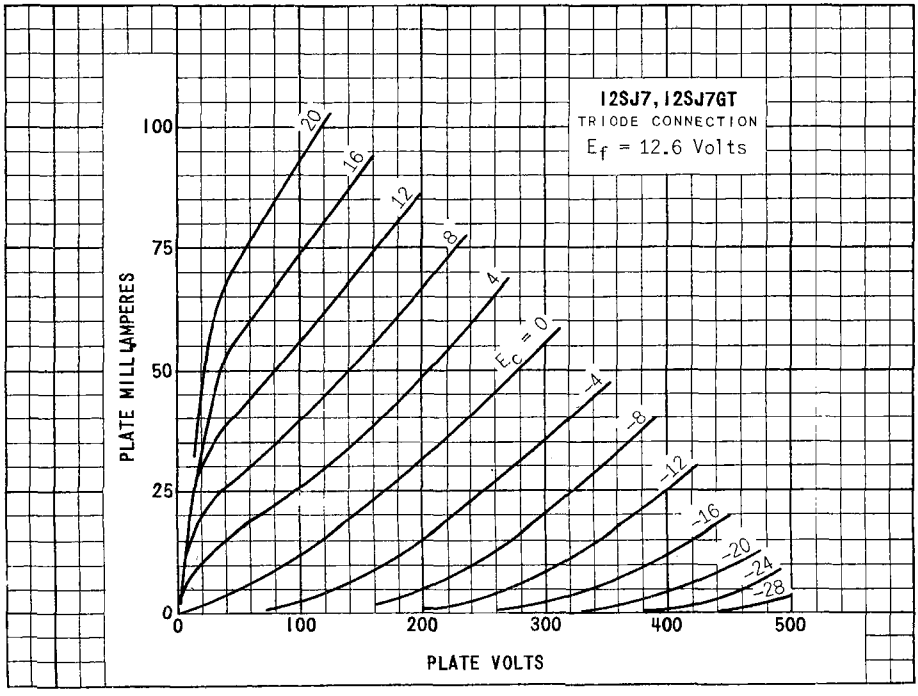


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PLATE
2984
JULY 1
1952

