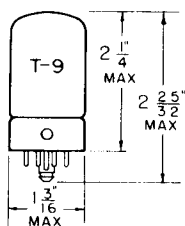


TUNG-SOL

PENTODE



GLASS BULB

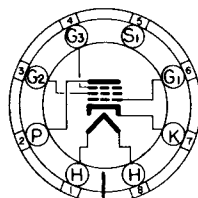
UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 450 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN 8 PIN BASE

THE 7V7 IS A HEATER-CATHODE TYPE SHARP CUT-OFF PENTODE VOLTAGE AMPLIFIER USING THE LOCK-IN CONSTRUCTION. IT IS CHARACTERIZED BY HIGH TRANSCONDUCTANCE AND LOW INTERELECTRODE CAPACITANCES WHICH ADAPT IT TO USE IN WIDE-BAND HIGH FREQUENCY AMPLIFIERS.

DIRECT INTERELECTRODE CAPACITANCES

WITH RMA SHIELD #308 CONNECTED TO CATHODE

GRID TO PLATE: (G_1 TO P) MAX.	0.004	μf
INPUT: G_1 TO (H+K+ G_2 + G_3 +IS)	9.5	μf
OUTPUT: P TO (H+K+ G_2 + G_3 +IS)	6.5	μf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	150	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	300	VOLTS
MINIMUM CATHODE BIAS RESISTOR	160	OHMS
MAXIMUM PLATE DISSIPATION	4	WATTS
MAXIMUM GRID #2 DISSIPATION	0.8	WATT

CONTINUED ON FOLLOWING PAGE

PLATE
2103NOV. 1,
1948

TUNG-SOL

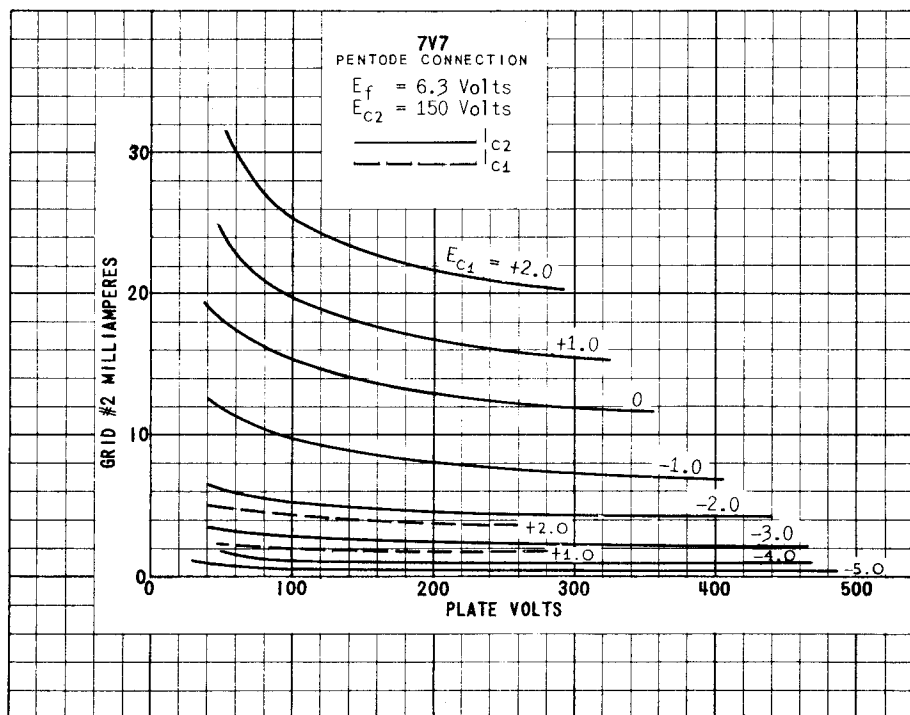
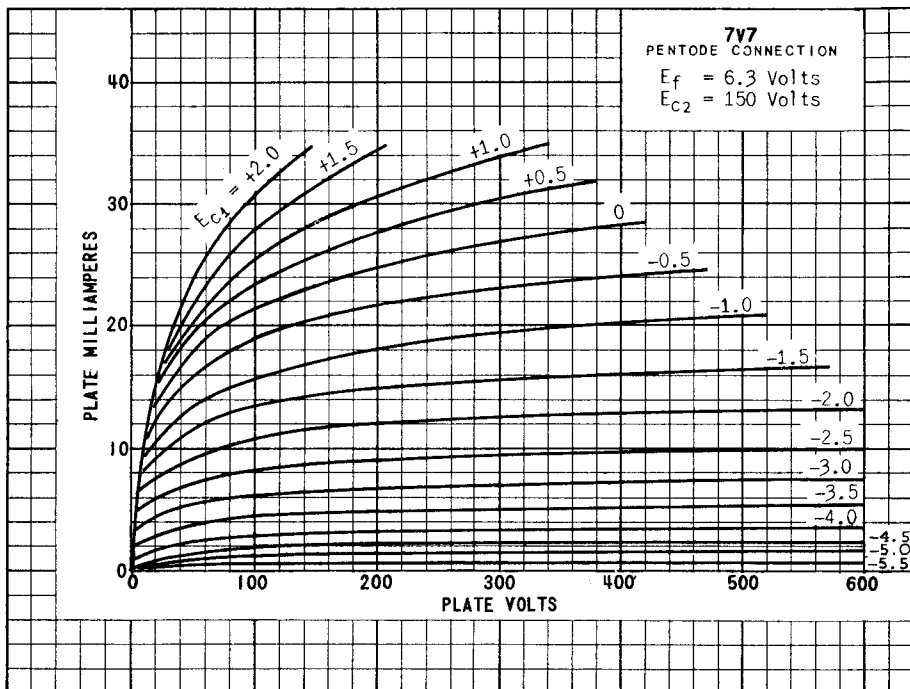
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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

	CONDITION 1 ^A	CONDITION 2 ^B	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	450	450	MA.
PLATE VOLTAGE	300	300	VOLTS
GRID #3 VOLTAGE	PINS #4 AND #5 CONNECTED TO PIN #7 AT SOCKET		
GRID #2 SUPPLY VOLTAGE ^C	150	300	VOLTS
GRID #2 SERIES RESISTOR	---	40 000	OHMS
CATHODE BIAS RESISTOR	160	160	OHMS
PLATE RESISTANCE (APPROX.)	0.3	0.3	MEG.
TRANSCONDUCTANCE	5 800	5 800	μMHOS
PLATE CURRENT	10	10	MA.
GRID #2 CURRENT	3.9	3.9	MA.
GRID #1 VOLTAGE FOR $I_b = 10 \mu A$	-8	-16	VOLTS

^A CONDITION 1 WITH FIXED SCREEN SUPPLY.^B CONDITION 2 WITH SERIES SCREEN RESISTOR.^C SCREEN SUPPLY VOLTAGES IN EXCESS OF 150 VOLTS REQUIRE THE USE OF A SERIES-DROPPING RESISTOR TO LIMIT THE VOLTAGE AT THE SCREEN TO 150 VOLTS WHEN THE PLATE CURRENT IS AT ITS NORMAL VALUE OF 10 MA.



7V7

PENTODE CONNECTION

 $E_f = 6.3$ Volts $E_b = 300$ Volts $E_{c2} = 150$ Volts

I_b
 I_{c2}
 g_m
 r_p

