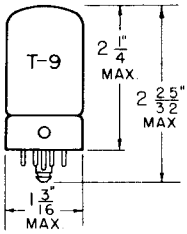
TUNG-SOL

DOUBLE-DIODE PENTODE

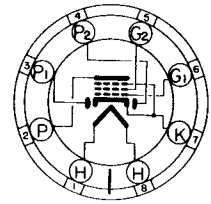


GLASS BULB

COATED UNIPOTENIAL CATHODE

HEATER
6.3 VOLTS 300 MA.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
LOCK-IN
8 PIN BASE

THE 7R7 COMBINES TWO DIODES AND ONE SEMI-REMOTE CUT-OFF PENTODE UNITS WITH A COMMON CATHODE IN ONE ENVELOPE. IT FEATURES LOW COUPLING CAPACITANCE BETWEEN THE DIODE AND PENTODE WHICH PERMITS USE OF THE TUBE AS A COMBINED INTERMEDIATE FREQUENCY AMPLIFIER, AVC RECTIFIER, AND DETECTOR. THE PENTODE UNIT MAY ALSO BE USED IN AUDIO AMPLIFIER SERVICE.

DIRECT INTERELECTRODE CAPACITANCES
WITH EXTERNAL SHIELD

GRID TO PLATE: (G_1 TO P)	0.004	μμf
INPUT: G_1 TO (H+K&G_3+G_2)	5.6	μμf
OUTPUT: P TO (H+K&G_3+G_2)	5.3	μμf
DIODE #1 TO GRID #1: (P_1 TO G_1) MAX.	0.005	μμf
DIODE #2 TO GRID #1: (P_2 TO G_1) MAX.	0.002	μμf

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	100	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	300	VOLTS
MINIMUM NEGATIVE GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	2	WATTS
MAXIMUM GRID #2 DISSIPATION	0.25	WATT
MAXIMUM DIODE VOLTAGE DROP (MEASURED WITH DIODES CONDUCTING 0.8 MA. EACH PLATE)	10	VOLTS
MAXIMUM DIODE CURRENT EACH PLATE FOR CONTINUOUS OPERATION	1	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	CLASS A_1 AMPLIFIER				
HEATER VOLTAGE	6.3	6.3	6.3	6.3	VOLTS
HEATER CURRENT	300	300	300	300	MA.
PLATE VOLTAGE	100	100	250	250	VOLTS
GRID #2 VOLTAGE	100	100	100	100	VOLTS
GRID #1 VOLTAGE	-2	-1	-2	-1	VOLTS
CATHODE BIAS RESISTOR	450	130	450	130	OHMS
PLATE RESISTANCE (APPROX.)	0.5	0.35	1.8	1.0	MEGOHMS
TRANSCONDUCTANCE	2 100	3 000	2 200	3 400	μMHOS
PLATE CURRENT	3.4	5.5	3.5	6.2	MA.
GRID #2 CURRENT	1.0	2.2	1.0	1.6	MA.
GRID #1 VOLTAGE (APPROX.) FOR G_m = 2 μMHOS	-16	-16	-20	-20	VOLTS

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PLATE
2011
MAY 3
1948

7R7

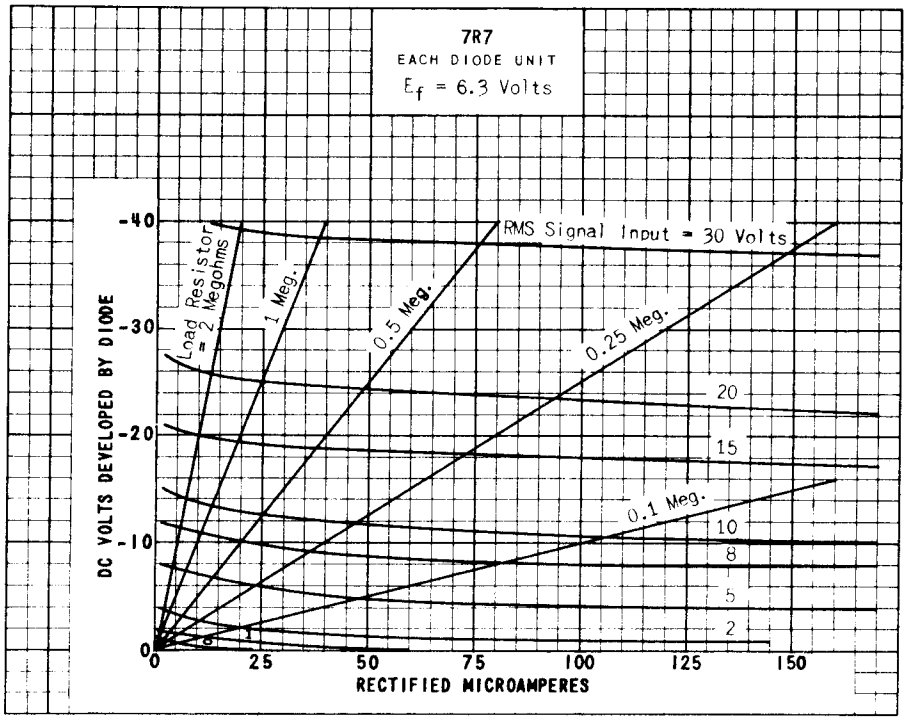
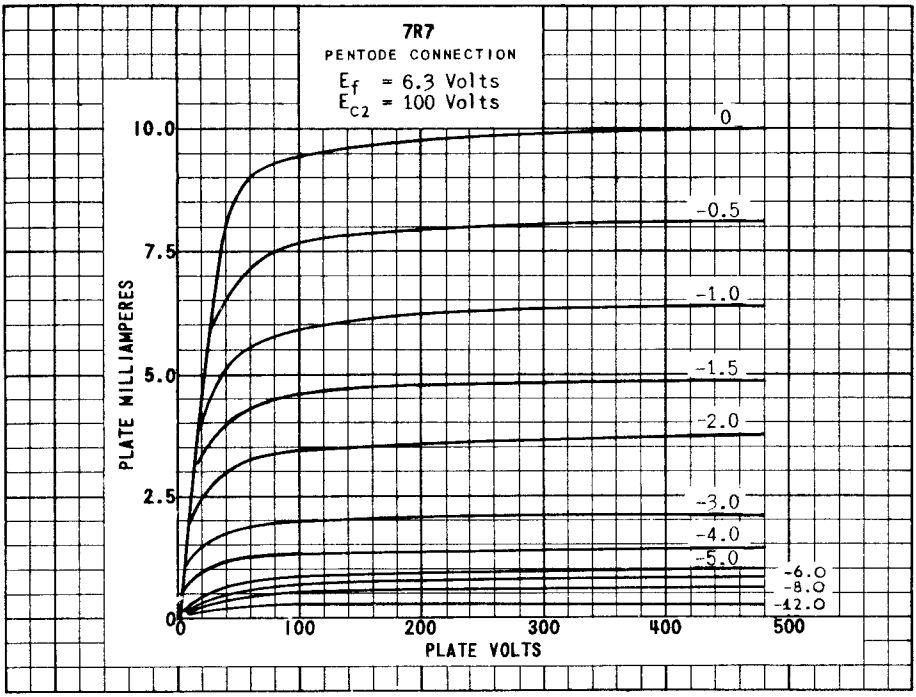


PLATE
2012
MAY 3
1948



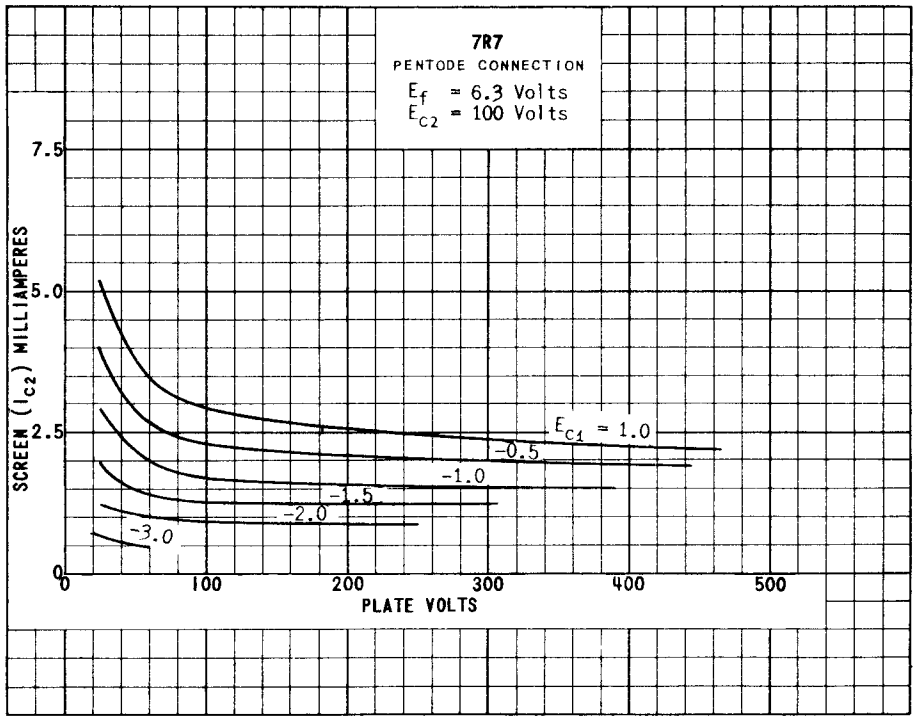


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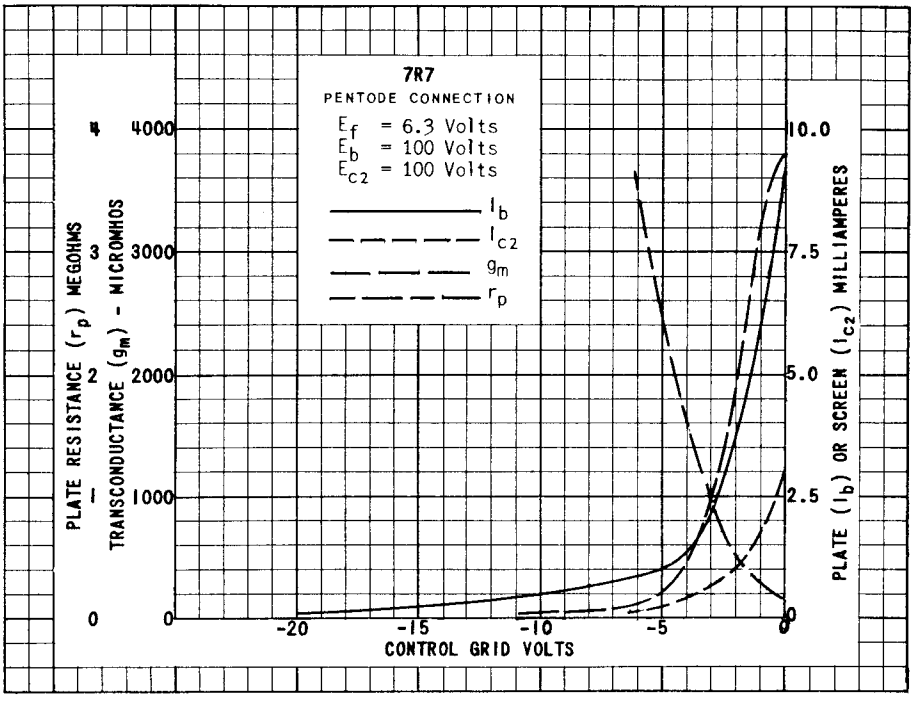
PLATE
2013
MAY 3
1948

7R7



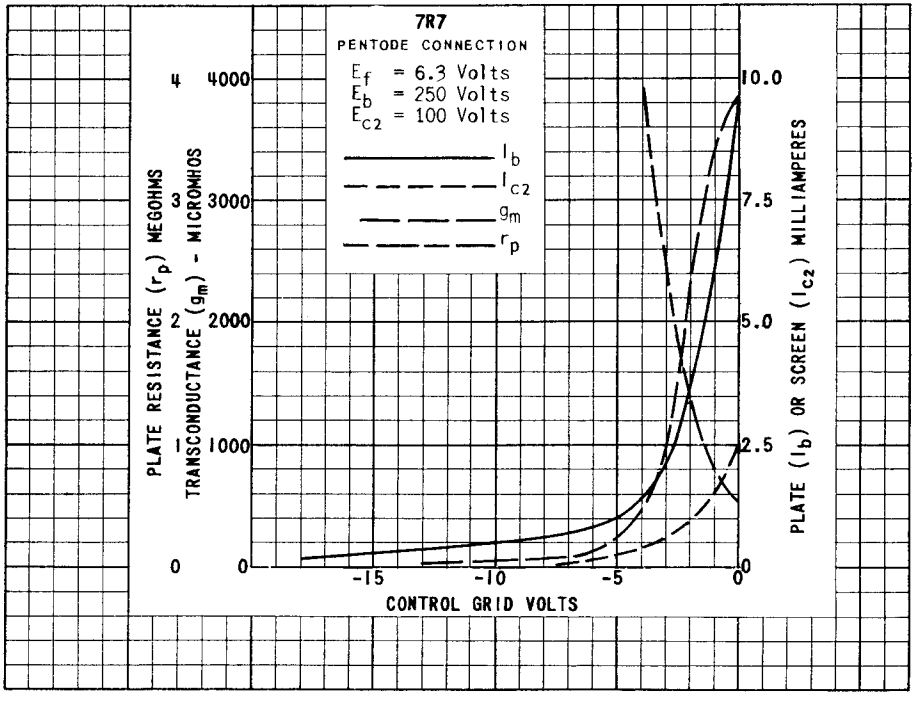


PLATE
2014
MAY 3
1948