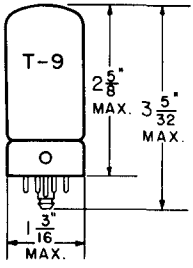
TUNG-SOL

PENTODE



GLASS BULB

UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMPERE

AC OR DC

ANY MOUNTING POSITION

BOTTOM VIEW

LOCK-IN 8 PIN BASE

THE 7AD7 IS A HEATER-CATHODE TYPE SHARP CUT-OFF PENTODE VOLTAGE AMPLIFIER USING THE LOCK-IN CONSTRUCTION. IT IS CHARACTERIZED BY A HIGH VALUE OF TRANSCONDUCTANCE WHICH MAKES IT USEFUL IN WIDE-BAND INTERMEDIATE FREQUENCY OR VIDEO AMPLIFIERS.

DIRECT INTERELECTRODE CAPACITANCES

WITH RMA SHIELD NO. 308 CONNECTED TO CATHODE

GRID TO PLATE: (G_1 TO P) MAX.	0.03	μμf
INPUT: G_1 TO ($H+K+G_2+G_3+IS$)	11.5	μμf
OUTPUT: P TO ($H+K+G_2+G_3+IS$)	7.5	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	300	VOLTS
MINIMUM GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	10	WATTS
MAXIMUM GRID #2 DISSIPATION	1.2	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE (FIXED BIAS)	0.25	MEG.
MAXIMUM GRID #1 CIRCUIT RESISTANCE (SELF-BIAS)	1	MEG.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
PLATE VOLTAGE	300	VOLTS
GRID #3 VOLTAGE	PINS #4 AND #5 CONNECTED TO PIN #7 AT SOCKET	
GRID #2 VOLTAGE	150	VOLTS
GRID #1 VOLTAGE[A]	-3	VOLTS
SELF BIAS RESISTOR	68	OHMS
PLATE RESISTANCE (APPROX.)	0.3	MEG.
TRANSCONDUCTANCE	9 500	μMHOS
ZERO SIGNAL PLATE CURRENT	28	MA.
ZERO SIGNAL GRID #2 CURRENT	7	MA.

[A] OBTAINED PREFERABLY BY SELF BIAS RESISTOR

CONTINUED ON FOLLOWING PAGE

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 TELEVISION AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
PLATE SUPPLY VOLTAGE	300	VOLTS
GRID #3 VOLTAGE	PINS #4 AND #5 CONNECTED TO PIN #7 AT SOCKET	
GRID #2 VOLTAGE	125	VOLTS
GRID #1 VOLTAGE	-3	VOLTS
SELF BIAS RESISTOR	68	OHMS
SIGNAL VOLTAGE (PEAK TO PLATE)	4	VOLTS
ZERO SIGNAL PLATE CURRENT	25	MA.
ZERO SIGNAL GRID #2 CURRENT	6	MA.
MAXIMUM SIGNAL VOLTAGE OUTPUT (PEAK TO PEAK)	135	VOLTS

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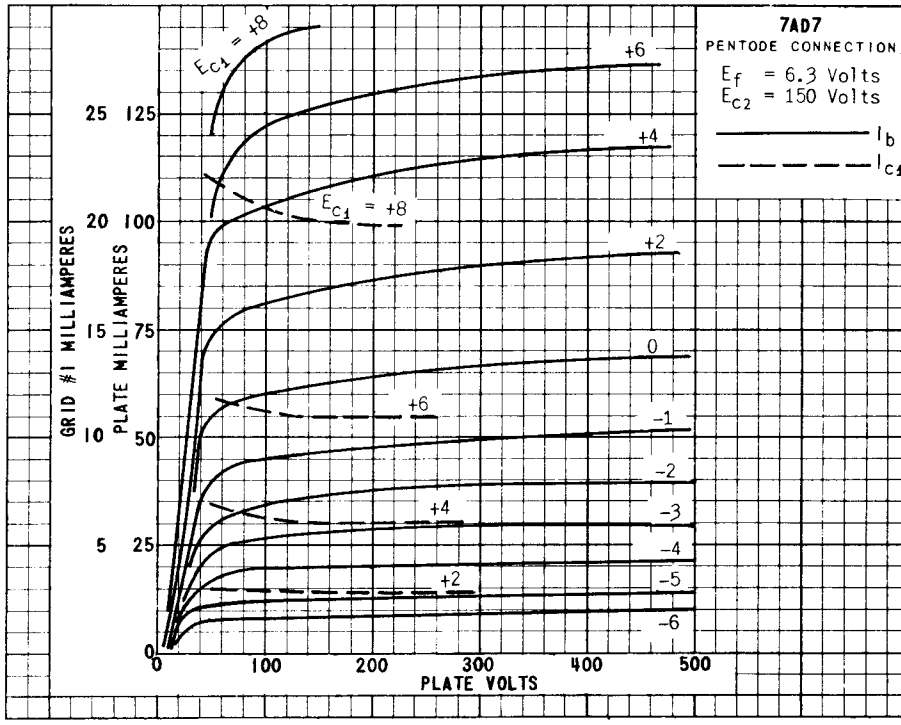

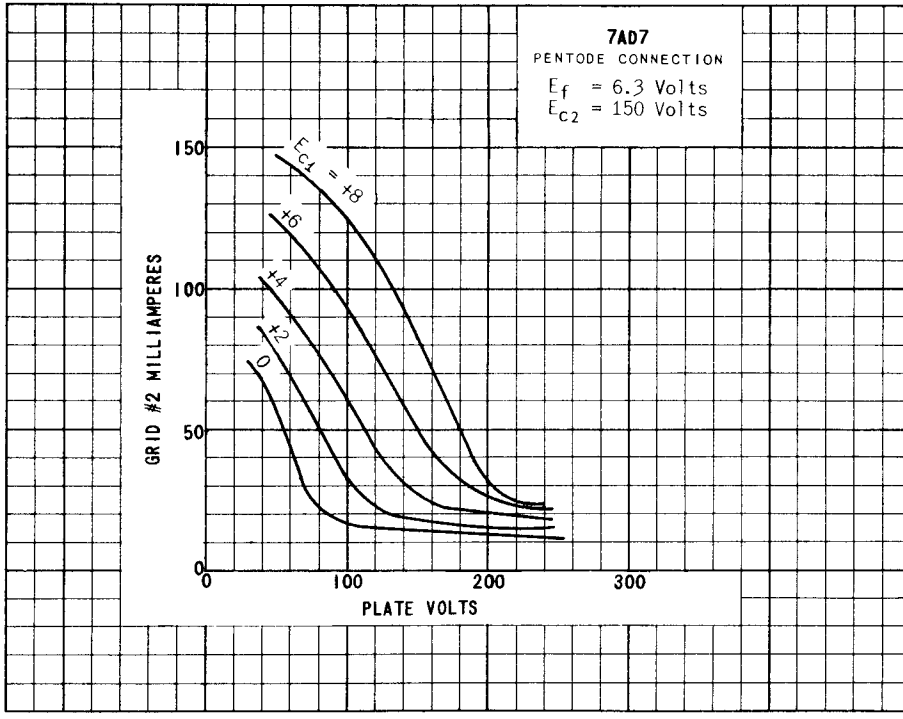

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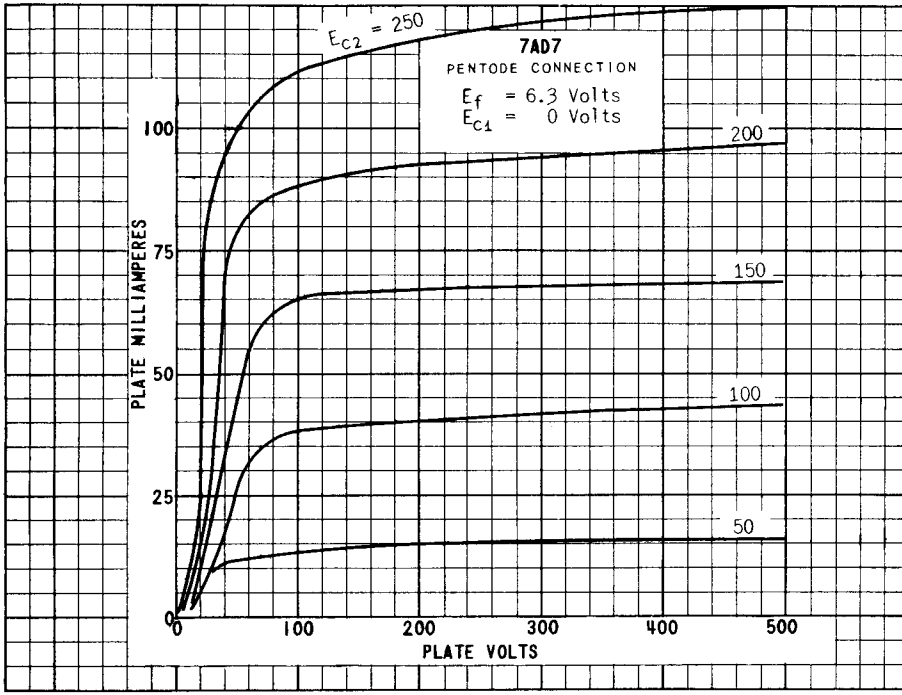
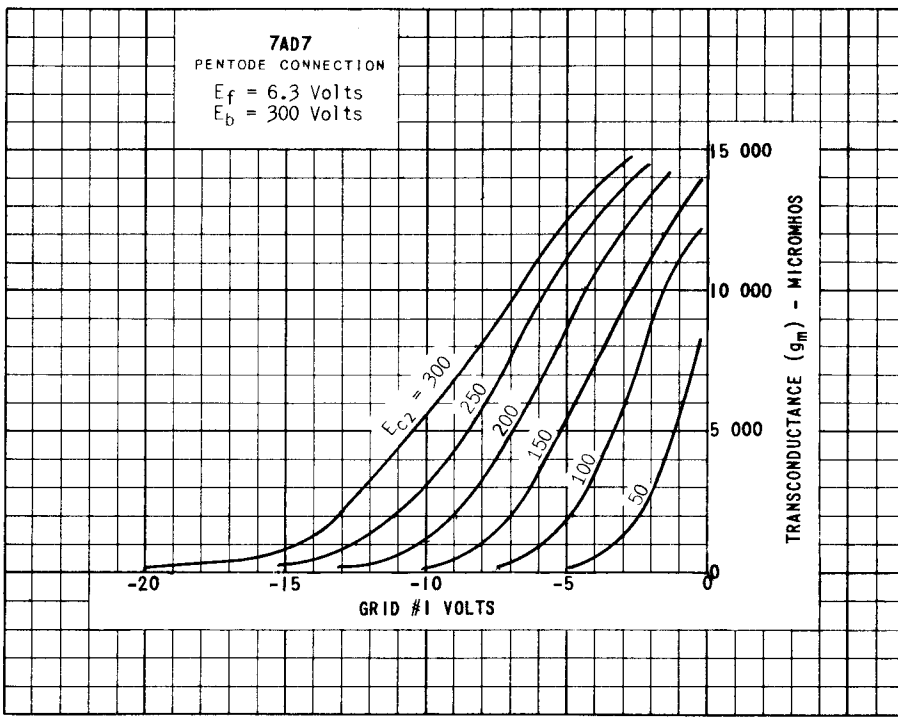
7AD7





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