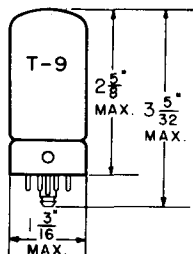


TUNG-SOL

PENTODE



GLASS BULB

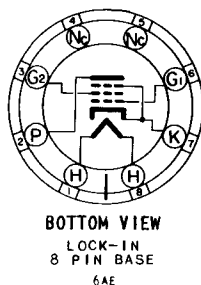
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 400 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN
8 PIN BASE
6AE

THE 7B5 IS AN INDIRECTLY HEATED CATHODE TYPE POWER AMPLIFIER PENTODE DESIGNED FOR SERVICE IN THE OUTPUT STAGES OF AC, AC/DC AND STORAGE BATTERY OPERATED RECEIVERS.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	315	VOLTS
MAXIMUM GRID #2 VOLTAGE	285	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	8.5	WATTS
MAXIMUM GRID #2 DISSIPATION	2.8	WATTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - SINGLE TUBE

HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	400	400	400	MA.
PLATE VOLTAGE	100	250	315	VOLTS
GRID #2 VOLTAGE	100	250	250	VOLTS
GRID #1 VOLTAGE ^A	-7	-18	-21	VOLTS
PEAK AF GRID #1 VOLTAGE	7	18	21	VOLTS
ZERO SIGNAL PLATE CURRENT	9	32	25.5	MA.
MAXIMUM SIGNAL PLATE CURRENT	9.5	33	28	MA.
ZERO SIGNAL GRID #2 CURRENT	1.6	5.5	4	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	3	10	9	MA.
PLATE RESISTANCE (APPROX.)	104 000	90 000	110 000	OHMS
TRANSCONDUCTANCE	1 500	2 300	2 100	μMHOS
LOAD RESISTANCE	12 000	7 600	9 000	OHMS
MAXIMUM SIGNAL POWER OUTPUT	0.35	3.4	4.5	WATTS
TOTAL HARMONIC DISTORTION (APPROX.)	11	11	15	PERCENT

^A MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR FIXED BIAS = 0.1 MEGOHM.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

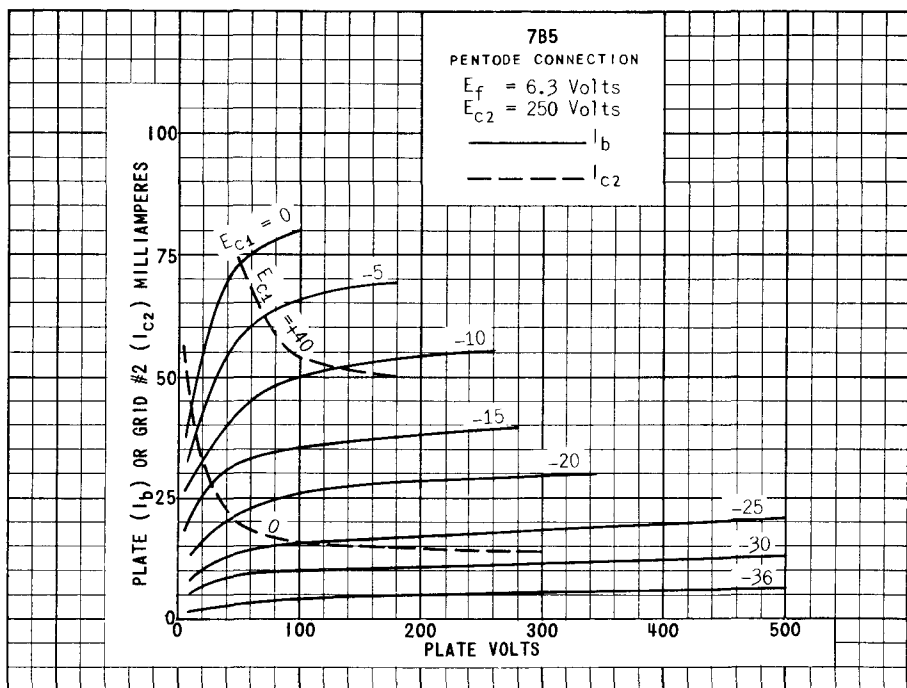
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

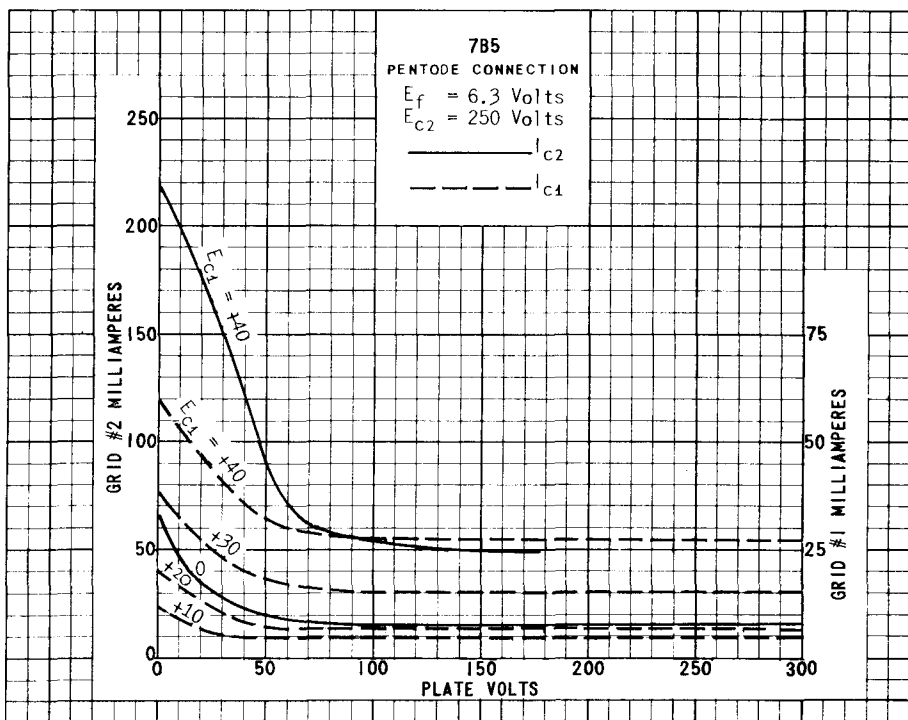
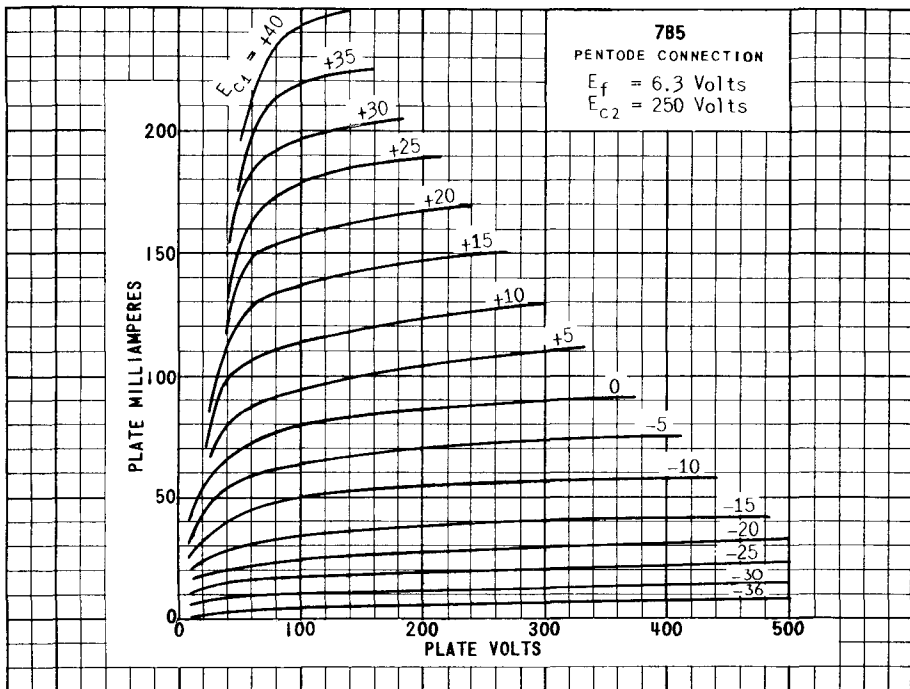
CLASS A₁ AMPLIFIER
PUSH-PULL - TWO TUBES^B

	FIXED BIAS	CATHODE BIAS	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	400	400	MA.
PLATE VOLTAGE	285	285	VOLTS
GRID #2 VOLTAGE	285	285	VOLTS
GRID #1 VOLTAGE	-25.5 ^A	---	VOLTS
CATHODE RESISTOR	---	400 ^C	OHMS
PEAK AF GRID #1 TO GRID #1 VOLTAGE	51	51	VOLTS
ZERO SIGNAL PLATE CURRENT	55	55	MA.
MAXIMUM SIGNAL PLATE CURRENT	72	61	MA.
ZERO SIGNAL GRID #2 CURRENT	9	9	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	17	13	MA.
PLATE TO PLATE LOAD RESISTANCE	12 000	12 000	OHMS
MAXIMUM SIGNAL POWER OUTPUT	10.5	9.8	WATTS
TOTAL HARMONIC DISTORTION	6	4	PERCENT

^A MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR FIXED BIAS = 0.1 MEGOHM.^B UNLESS OTHERWISE SPECIFIED.^C MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR CATHODE BIAS = 0.5 MEGOHM.

SIMILAR TYPE REFERENCE: Ratings and characteristics are identical to types 6K6GT and 41.





7B5 (6K6GT, 4I)

