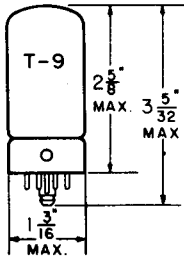


TUNG-SOL

BEAM PENTODE



GLASS BULB

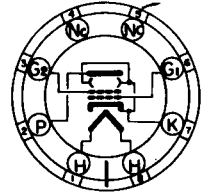
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 450 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN
8 PIN BASE

6AA

THE 7C5 IS A BEAM POWER AMPLIFIER, DESIGNED FOR SERVICE IN THE OUTPUT STAGE OF AC AND STORAGE BATTERY OPERATED RECEIVERS. IT HAS HIGH POWER SENSITIVITY AND HIGH POWER OUTPUT WITH COMPARATIVELY LOW SUPPLY VOLTAGES.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD WB-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	315	VOLTS
MAXIMUM GRID #2 VOLTAGE	285	VOLTS
MAXIMUM PLATE DISSIPATION	12	WATTS
MAXIMUM GRID #2 DISSIPATION	2	WATTS

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE OR ADDITION.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - SINGLE TUBE

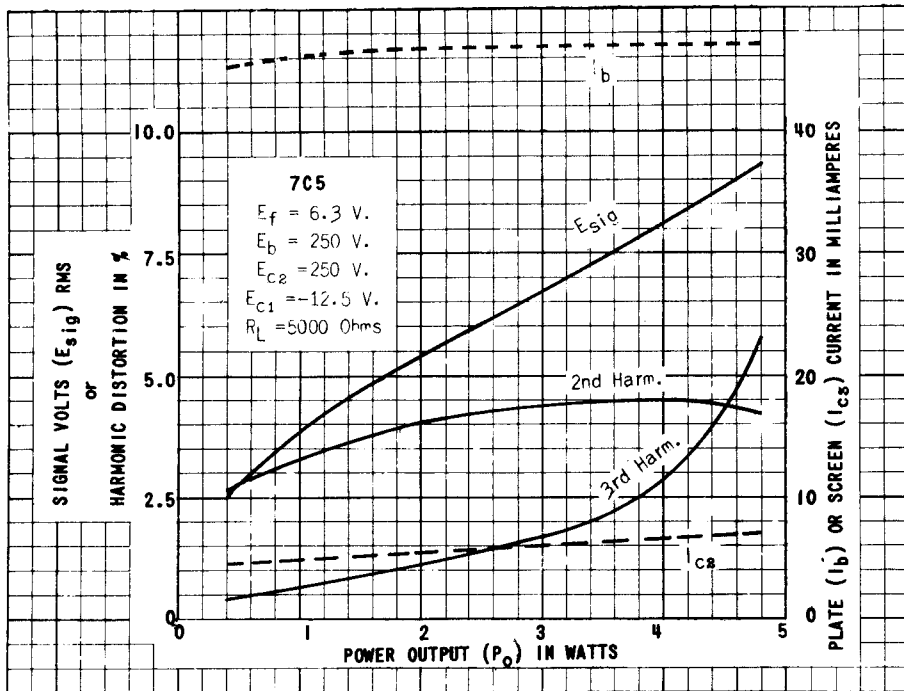
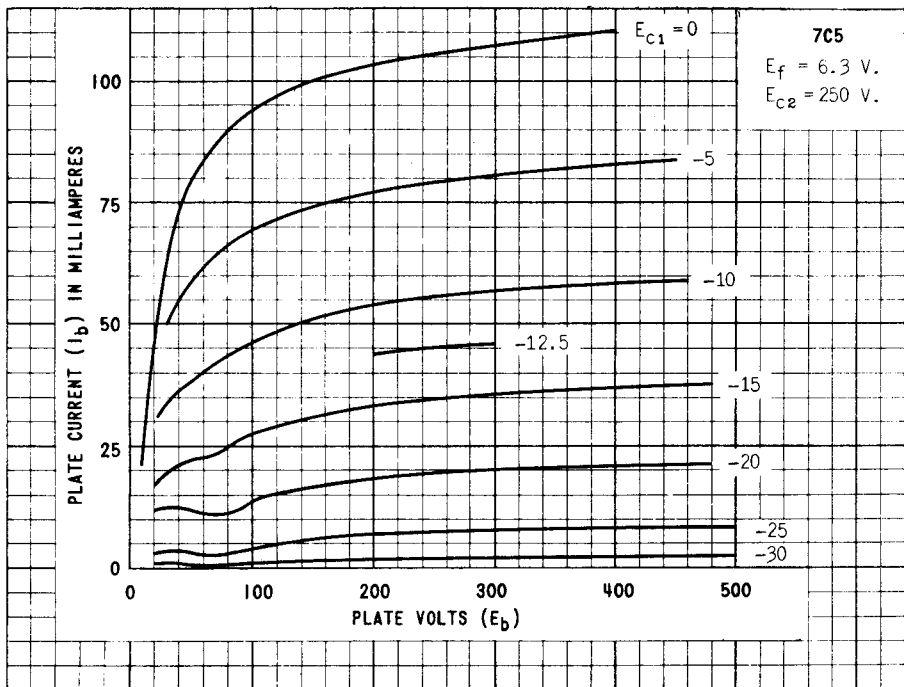
HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	450	450	450	MA.
PLATE VOLTAGE	180	250	315	VOLTS
GRID #2 VOLTAGE	180	250	225	VOLTS
GRID #1 VOLTAGE ^A	-8.5	-12.5	-13	VOLTS
PEAK AF GRID #1 VOLTAGE	8.5	12.5	13	VOLTS
ZERO SIGNAL PLATE CURRENT	29	45	34	MA.
MAXIMUM SIGNAL PLATE CURRENT	30	47	35	MA.
ZERO SIGNAL GRID #2 CURRENT	3	4.5	2.2	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	4	7	6	MA.
PLATE RESISTANCE (APPROX.)	58 000	52 000	77 000	OHMS
TRANSCONDUCTANCE	3 700	4 100	3 750	μMHOS
LOAD RESISTANCE	5 500	5 000	8 500	OHMS
MAXIMUM SIGNAL POWER OUTPUT	2	4.5	5.5	WATTS
TOTAL HARMONIC DISTORTION (APPROX.)	8	8	12	PERCENT

CLASS AB₁ PUSH-PULL AMPLIFIER

VALUES ARE FOR TWO TUBES

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	450	450	MA.
PLATE VOLTAGE	250	285	VOLTS
GRID #2 VOLTAGE	250	285	VOLTS
GRID #1 VOLTAGE ^A	-15	-19	VOLTS
PEAK AF GRID TO GRID VOLTAGE	30	38	VOLTS
ZERO SIGNAL PLATE CURRENT	70	70	MA.
MAXIMUM SIGNAL PLATE CURRENT	79	92	MA.
ZERO SIGNAL GRID #2 CURRENT	5	4	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	13	13.5	MA.
PLATE TO PLATE LOAD RESISTANCE	10 000	8 000	OHMS
MAXIMUM SIGNAL POWER OUTPUT	10	14	WATTS
TOTAL HARMONIC DISTORTION	5	3.5	PERCENT

^A MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR FIXED BIAS = 0.1 MEGOHM.
 MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR CATHODE BIAS = 0.5 MEGOHM.



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PLATE 1090-1
 JULY 28 1941

7C5

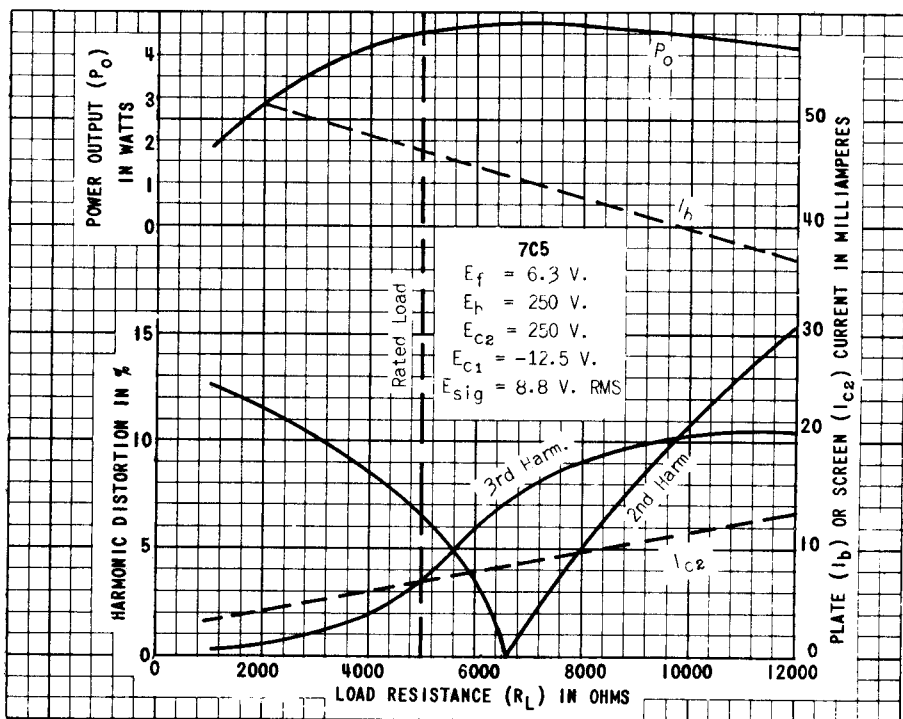


PLATE
1091-1