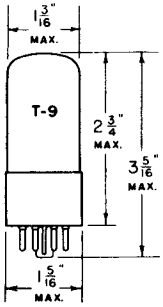
TUNG-SOL



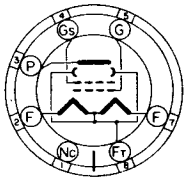
BEAM POWER AMPLIFIER

COATED FILAMENT

1.4 VOLTS 0.10 AMPERE
2.8 VOLTS 0.05 AMPERE
DC

GLASS BULB

INTERMEDIATE 7 PIN OCTAL BASE



7AP
BOTTOM VIEW

THE TUNG-SOL 3Q5GT/G IS A LOW CURRENT DRAIN FILAMENT TYPE BEAM POWER AMPLIFIER. IT IS DESIGNED FOR SERVICE IN THE OUTPUT STAGE OF THREE WAY PORTABLE RECEIVERS. ITS ELECTRICAL CHARACTERISTICS ARE SIMILAR TO THOSE OF THE 1Q5GT/G EXCEPT THAT THE FILAMENT IS CENTER TAPPED FOR EITHER SERIES OPERATION AT 2.8 VOLTS OR PARALLEL OPERATION AT 1.4 VOLTS.

RATINGS

	PARALLEL FILAMENT	SERIES FILAMENT	
MAXIMUM FILAMENT VOLTAGE			VOLTS
DRY BATTERY OPERATION — VOLTAGE MUST NEVER EXCEED	1.6	3.2	VOLTS
AC — DC POWER LINE OPERATION — DESIGN CENTER	1.3	2.6	VOLTS
MAXIMUM PLATE VOLTAGE	110	110	VOLTS
MAXIMUM SCREEN VOLTAGE	110	110	VOLTS
MAXIMUM CATHODE CURRENT (ZERO SIGNAL)	12	6[A]	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

	PARALLEL FILAMENT		SERIES FILAMENT	
PLATE VOLTAGE	85	90	90	VOLTS
SCREEN VOLTAGE	85	90	90	VOLTS
CONTROL GRID VOLTAGE	−5[B]	−4.5[B]	−4.5[C]	VOLTS
PEAK AF SIGNAL VOLTAGE	5	4.5	4.5	VOLTS
PLATE CURRENT	7.0	9.5	8.0	MA.
SCREEN CURRENT (NOMINAL)	0.8	1.3	1.0	MA.
PLATE RESISTANCE APPROX.	70 000	75 000	80 000	OHMS
TRANSCONDUCTANCE	1950	2200	2000	μMHOS
LOAD RESISTANCE	9000	8000	8000	OHMS
TOTAL HARMONIC DISTORTION	5.5	6.0	8.5	PER CENT
POWER OUTPUT	0.250	0.270	0.230	WATTS

[A] PER 1.4 V. FILAMENT SECTION. SHUNTING RESISTOR ACROSS NEGATIVE FILAMENT SECTION IS NECESSARY TO LIMIT CURRENT TO VALUE SHOWN.

[B] RETURN TO NEGATIVE FILAMENT (PIN #8). [C] RETURN TO NEGATIVE FILAMENT (PIN #7).

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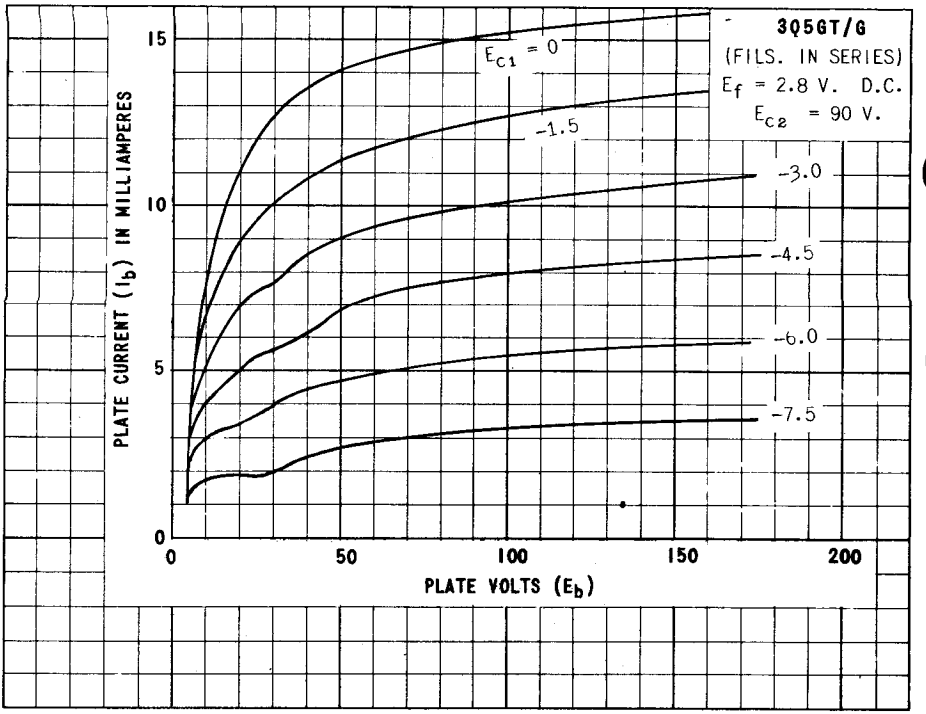
PLATE 1104-2

SEPT. 17 1941

3Q5GT/G



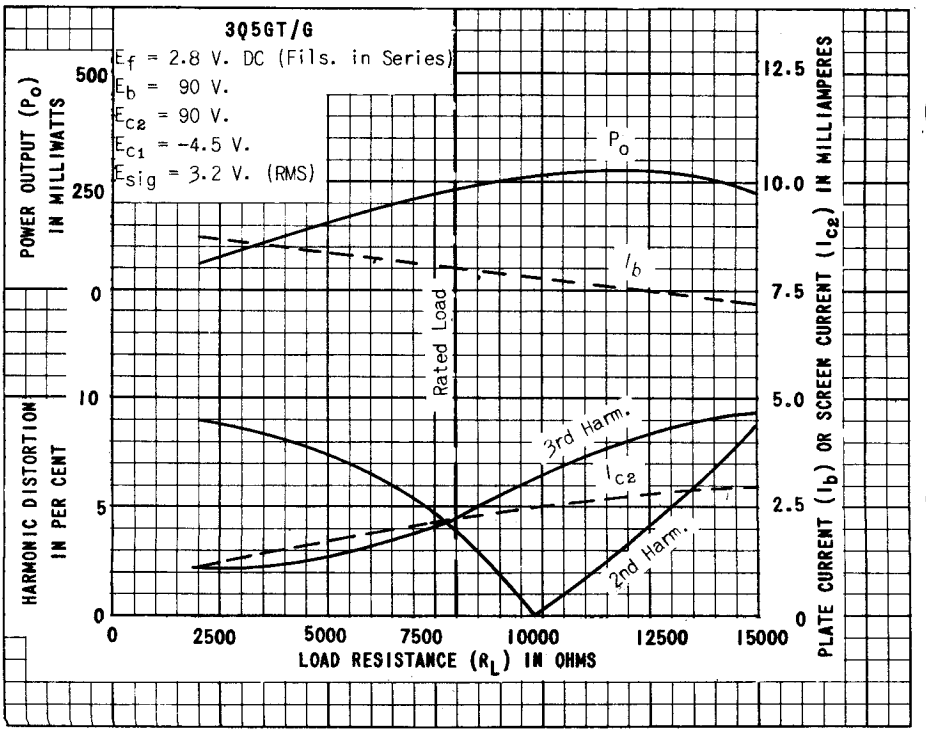


PLATE 1105-2