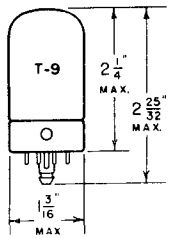
TUNG-SOL



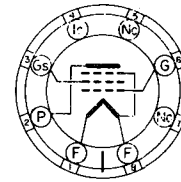
PENTODE POWER AMPLIFIER

COATED FILAMENT

1.4 VOLTS 0.05 AMPERE
DC

GLASS BULB

LOCKING-IN 8 PIN BASE



5ADα

BOTTOM VIEW

NOTE. Ic DENOTES INTERNAL CONNECTION.

THE TUNG-SOL 1LB4 IS A LOW VOLTAGE, LOW CURRENT DRAIN, BATTERY TYPE POWER PENTODE. IT IS DESIGNED FOR SERVICE WITH 90 VOLTS OF "B" BATTERY AND A SINGLE DRY CELL "A" BATTERY. ITS RATINGS AND ELECTRICAL CHARACTERISTICS ARE IDENTICAL TO THOSE OF THE PENTODE SECTION OF THE 1D8GT.

RATINGS

MAXIMUM FILAMENT VOLTAGE:		
DRY BATTERY OPERATION — VOLTAGE MUST NEVER EXCEED	1.6	VOLTS
AC-DC POWER LINE OPERATION — DESIGN CENTER	1.3	VOLTS
MAXIMUM PLATE VOLTAGE	110	VOLTS
MAXIMUM SCREEN VOLTAGE	110	VOLTS
MAXIMUM CATHODE CURRENT — ZERO SIGNAL	6	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

PLATE VOLTAGE	45	62.5	67.5	90	VOLTS
SCREEN VOLTAGE	45	62.5	67.5	90	VOLTS
CONTROL GRID VOLTAGE [A]	-4.5	-5.0	-6.0	-9.0	VOLTS
PEAK AF SIGNAL VOLTAGE	4.5	5.0	6.0	9.0	VOLTS
PLATE CURRENT	1.6	3.8	3.8	5.0	MA.
SCREEN CURRENT	0.3	0.8	0.8	1.0	MA.
PLATE RESISTANCE APPROX.	0.3	0.2	0.2	0.2	MEGOHM
TRANSCONDUCTANCE	650	875	875	925	µMHOS
LOAD RESISTANCE	20000	16000	16000	12000	OHMS
TOTAL HARMONIC DISTORTION	10	10	10	10	PER CENT
POWER OUTPUT	35	90	100	200	MILLIWATTS

[A] RETURN TO NEGATIVE FILAMENT (PIN #8)

FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK.

CONTINUED NEXT PAGE

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PLATE
989-1

JAN. 31
1941

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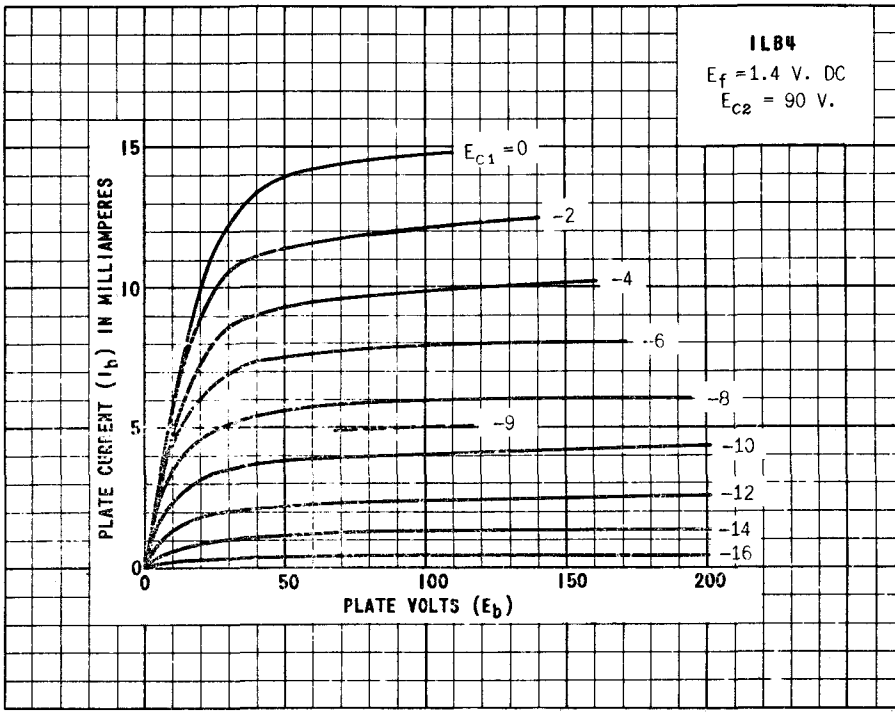
1LB4



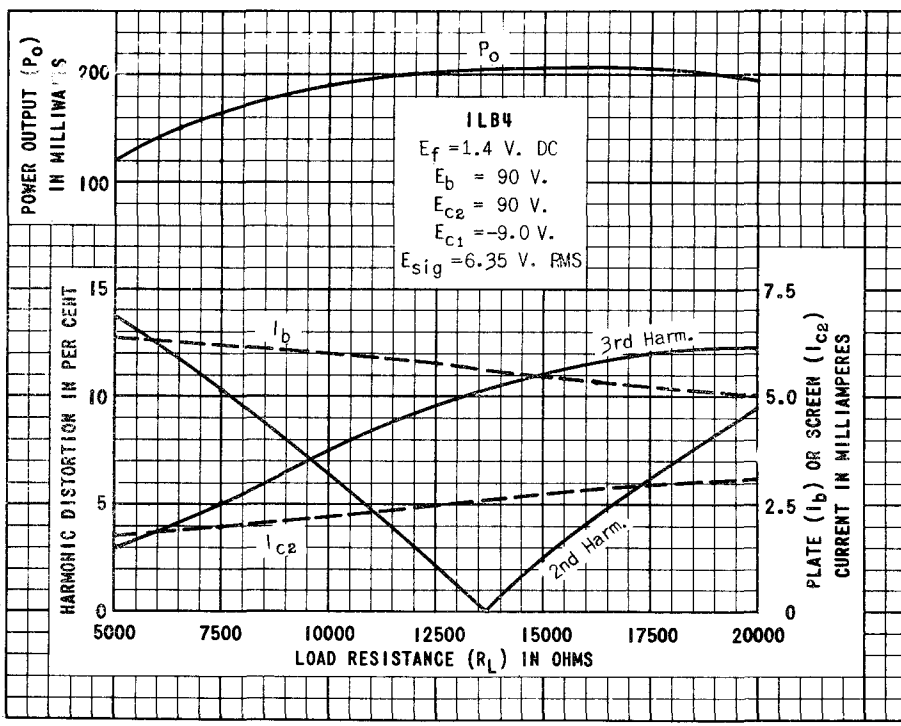


PLATE 990-1

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