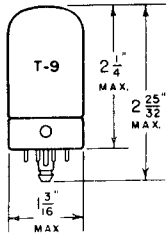


**TUNG-SOL**

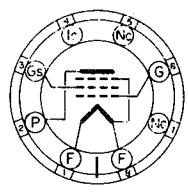


**PENTODE POWER AMPLIFIER**

COATED FILAMENT  
 1.4 VOLTS 0.05 AMPERE  
 DC

GLASS BULB

LOCKING-IN 8 PIN BASE



**5A0 $\alpha$**

BOTTOM VIEW

NOTE: 1C DROTTES  
 AT WHAL 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 1B8GT.

**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	VO TS
MAXIMUM CATHODE CURRENT - ZERO SIGNAL	6	MA.

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

**CLASS A<sub>1</sub> AMPLIFIER**

PLATE VOLTAGE	45	62.5	67.5	90	VOLTS
SCREEN VOLTAGE	45	62.5	67.5	90	VOLTS
CONTROL GRID VOLTAGE <sup>A</sup>	-4.0	-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 <sup>APPROX.</sup>	0.3	0.2	0.2	0.2	MEG OHM
TRANSCONDUCTANCE	650	875	875	925	$\mu$ MHO
LOAD RESISTANCE	20000	16000	16000	12000	OHMS
TOTAL HARMONIC DISTORTION	10	10	10	10	PER CENT
POWER OUTPUT	35	90	100	200	MILLIWATTS

<sup>A</sup> RETURN TO NEGATIVE FILAMENT (PIN #8)

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

CONTINUED NEXT PAGE

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PLATE  
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