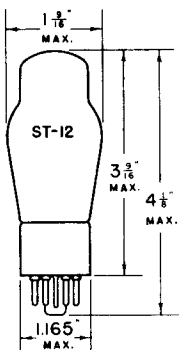
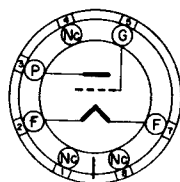


**TUNG-SOL**



**TRIODE AMPLIFIER**

COATED FILAMENT  
 2.0 VOLTS 0.06 AMPERE  
 DC



GLASS BULB

G-5Z

SMALL 7 PIN OCTAL BASE

THE TUNG-SOL IH4G IS A GENERAL PURPOSE FILAMENT TYPE TRIODE DESIGN-  
 ED FOR SERVICE IN BATTERY OPERATED RECEIVERS. WITH THE EXCEPTION  
 OF CAPACITANCES ITS RATINGS AND CHARACTERISTICS ARE IDENTICAL WITH  
 THOSE OF THE 30.

OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

PLATE VOLTAGE	90	135	180 <sup>MAX.</sup>	VOLTS
GRID VOLTAGE	-4.5	-9	-13.5	VOLTS
GRID CIRCUIT RESISTANCE <sup>MAX.</sup>	2	2	2	MEG OHMS
PLATE CURRENT	2.5	3.0	3.1	MA.
PLATE RESISTANCE	11 000	10 300	10 300	OHMS
TRANSCONDUCTANCE	850	900	900	μMHMS
AMPLIFICATION FACTOR	9.3	9.3	9.3	

DETECTOR

	BIASED			GRID LEAK	
PLATE VOLTAGE	90	135	180 <sup>MAX.</sup>	45 <sup>MAX.</sup>	VOLTS
GRID VOLTAGE	-9 <sup>A</sup>	-13.5 <sup>A</sup>	-18 <sup>A</sup>	RETURN TO (+) FILAMENT	VOLTS
PLATE CURRENT <sup>P</sup>	ADJUSTED TO 0.2 MA. WITH NO INPUT SIGNAL			-	
GRID LEAK	-	-	-	1 TO 5	MEG OHMS
GRID CONDENSER	-	-	-	250	μμf

<sup>A</sup> APPROXIMATE. GRID RETURN TO NEGATIVE END OF FILAMENT.

<sup>P</sup> WITH MAXIMUM SIGNAL THE AVERAGE DC PLATE CURRENT SHOULD NOT EXCEED 2.0 MA.

CONTINUED NEXT PAGE

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## TUNG-SOL

CLASS B<sub>2</sub> AMPLIFIER

PLATE VOLTAGE	180 MAX.	VOLTS
PEAK PLATE CURRENT PER TUBE	50 MAX.	MA.
ZERO-SIGNAL PLATE CURRENT PER TUBE	1.5 MAX.	MA.

## TYPICAL OPERATING CONDITIONS

VALUES ARE FOR TWO TUBES

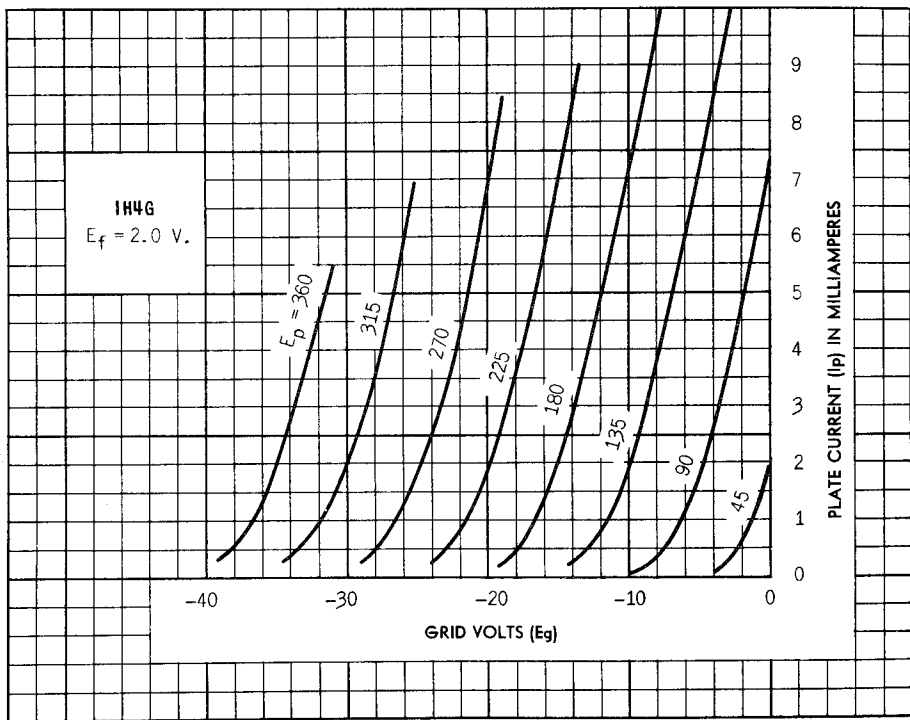
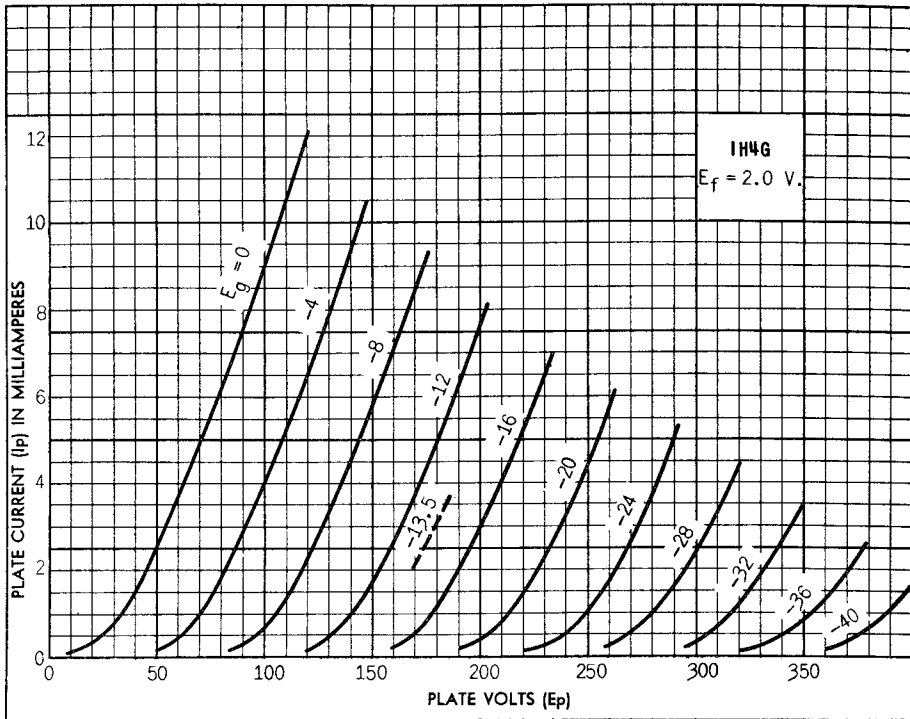
PLATE VOLTAGE	157.5	VOLTS
GRID VOLTAGE	-15	VOLTS
ZERO-SIGNAL PLATE CURRENT	1	MA.
LOAD RESISTANCE PER TUBE	2000	OHMS
EFFECTIVE LOAD RESISTANCE <sup>PLATE TO PLATE</sup>	8000	OHMS
PEAK POWER INPUT <sup>GRID TO GRID</sup>	260 MAX.	MILLIWATTS
POWER OUTPUT <sup>D</sup> (6% TO 7% DISTORTION)	2.1	WATTS

<sup>D</sup> WITH ONE TYPE 1H4G AS DRIVER, OPERATED WITH PLATE VOLTAGE = 157.5 VOLTS, GRID VOLTAGE = -11.3 VOLTS, PLATE LOAD OF APPROXIMATELY 18 000 OHMS, AND INPUT TRANSFORMER RATIO, PRIMARY TO ONE HALF SECONDARY = 1.165.

DIRECT INTERELECTRODE CAPACITANCES<sup>S</sup>

GRID TO FILAMENT	3.6	μμf
PLATE TO FILAMENT	5.0	μμf
GRID TO PLATE	5.0	μμf

<sup>S</sup> WITH SHIELD



# IH4 G

