

## TUNG-SOL

## BEAM POWER AMPLIFIER

## HALF-WAVE RECTIFIER WITH TAPPED HEATER

## PHYSICAL SPECIFICATIONS

EMITTER UNIPOTENTIAL CATHODE		PIN CONNECTIONS			
BASE	INTERMEDIATE 8 PIN OCTAL	PIN 1	RECT. CATHODE	PIN 7	RECT. HEATER*
CAP	NONE	PIN 2	AMP. HEATER	PIN 8	AMP. CATHODE**
BULB	T-9	PIN 3	AMP. PLATE		
MAXIMUM DIAMETER	1 5/16"	PIN 4	GRID #2		
MAXIMUM OVERALL LENGTH	3 5/16"	PIN 5	GRID #1	TOP CAP	NONE
MAXIMUM SEATED HEIGHT	2 3/4"	PIN 6	RECT. PLATE*		

\* PILOT LAMP CONNECTION

\*\* AND BEAM PLATES

## RATINGS

HEATER OR FILAMENT VOLTAGE (AC OR DC)	70.0	VOLTS
HEATER OR FILAMENT CURRENT	0.15	AMP
MAXIMUM PLATE VOLTAGE (AMPLIFIER SECTION)	110	VOLTS
MAXIMUM SCREEN VOLTAGE (AMPLIFIER SECTION)	110	VOLTS
MAXIMUM AC PLATE VOLTAGE (RMS) (RECTIFIER SECTION)	125	VOLTS
TUBE VOLTAGE DROP AT 120 MA. DC (RECTIFIER SECTION)	14	VOLTS

## OPERATING CONDITIONS AND CHARACTERISTICS

AMPLIFIER SECTION - CLASS A<sub>1</sub> AMPLIFIER

PLATE VOLTAGE	110	VOLTS
SCREEN VOLTAGE	110	VOLTS
CONTROL GRID VOLTAGE	-7.5	VOLTS
PLATE CURRENT	40	MA.
SCREEN CURRENT	3.0	MA.
TRANSCONDUCTANCE	5800	μMHOS
AMPLIFICATION FACTOR (APPROX.)	80	
LOAD RESISTANCE	2500	OHMS
TOTAL HARMONIC DISTORTION	6.5	PER CENT
POWER OUTPUT	1.5	WATTS

## RECTIFIER SECTION - HALF WAVE RECTIFIER

## WITH CONDENSER INPUT TO FILTER

MAXIMUM AC PLATE VOLTAGE (RMS)	125	VOLTS
MAXIMUM DC OUTPUT CURRENT	60	MA.

NOTE: THIS TUBE IS USED WITH A 0.15 AMPERE PILOT LAMP, WHICH IS CONNECTED BETWEEN PINS #6 AND #7. SINCE THE DC OUTPUT CURRENT OF THE RECTIFIER SECTION FLOWS THROUGH THE PILOT LAMP SECTION OF THE HEATER, THIS TUBE SHOULD NEVER BE USED IN CIRCUITS WITHOUT A PILOT LAMP.