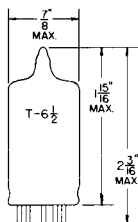
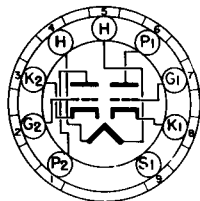


## TUNG-SOL



GLASS BULB

**TWIN TRIODE**  
 MINIATURE TYPE  
 COATED UNIPOTENTIAL CATHODE  
 HEATER  
 6.3 VOLTS 0.4 AMP.  
 AC OR DC  
 ANY MOUNTING POSITION



**BOTTOM VIEW**  
 MINIATURE BUTTON  
 9 PIN BASE

9AJ

THE 6BZ8 IS A MEDIUM MU TWIN TRIODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE IN LOW NOISE VHF AMPLIFIER CASCODE OPERATION WITH THE SECTION #1 AS THE INPUT SECTION OF THE CASCODE CIRCUIT. WITH THE EXCEPTION OF HEATER WARM-UP TIME AND HEATER CHARACTERISTICS, THE 6BZ8 IS IDENTICAL TO THE 4BZ9.

**DIRECT INTERELECTRODE CAPACITANCES**  
 WITH EXTERNAL SHIELD #315

	#1 TRIODE	#2 TRIODE	
GRID TO PLATE (G TO P)	1.15	---	$\mu\text{f}$
PLATE TO CATHODE (P TO K)	---	0.15	$\mu\text{f}$
#1 TRIODE PLATE TO #2 TRIODE PLATE P <sub>1</sub> TO P <sub>2</sub>	.010	---	$\mu\text{f}$

**RATINGS**

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

EACH SECTION

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE		
HEATER POSITIVE WITH RESPECT TO CATHODE	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
MAXIMUM PLATE VOLTAGE	250	VOLTS
MAXIMUM PLATE DISSIPATION	2.2	WATTS
MAXIMUM CATHODE CURRENT	20	MA.
MAXIMUM GRID CIRCUIT RESISTANCE	0.1	MEG OHM

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**  
 CLASS A<sub>1</sub> AMPLIFIER - EACH SECTION

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.4	AMP.
PLATE VOLTAGE	125	VOLTS
CATHODE RESISTOR	100	OHMS
PLATE RESISTANCE	5 600	OHMS
TRANSCONDUCTANCE	8 000	$\mu\text{MHOS}$
AMPLIFICATION FACTOR	45	
PLATE CURRENT	10	MA.
GRID VOLTAGE (APPROX.) FOR G <sub>m</sub> = 50 $\mu\text{MHOS}$	-13	VOLTS
CASCODE TRANSCONDUCTANCE (E <sub>b</sub> 250V E <sub>c1</sub> -0.5V)	10 000	$\mu\text{MHOS}$
CASCODE PLATE CURRENT (E <sub>b</sub> 250V E <sub>c1</sub> -0.5V)	15	MA.

CONTINUED ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## CASCODE TRANSCONDUCTANCE TEST CIRCUIT

