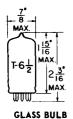
---- TUNG-SOL ---

TRIODE PENTODE

MINIATURE TYPE



HEATER
6.3 VOLTS 0.45 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE
9JF

THE 6EU8 IS A HEATER-CATHODE TYPE TRIODE-PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR THE USE AS A COMBINED TRIODE OSCILLATOR AND PENTODE MIXER IN TELEVISION RECEIVERS. THE TRIODE HAS A CONTROLLED CATHODE WARM-UP CHARACTERISTIC. EXCEPT FOR HEATER CHARACTERISTICS, THE 6EU8 IS IDENTICAL TO THE 5EU8.

DIRECT INTERELECTRODE CAPACITANCES

	WITH	WITHOU	Т
PENTODE SECTION:	SHIELD	SHIELD	
GRID #1 TO PLATE: (G1 TO P) (MAX.)	0.10	0.02	$\mu\mu$ f
INPUT: G1 TO (H+K)	5.0	5.0	$\mu \mu f$
OUTPUT: P TO (H+K)	3.4	2.6	μμf
TRIODE SECTION:			
GRID TO PLATE: (G TO P)	1.7	1.7	$\mu\mu f$
INPUT: G TO (H+K)	3.2	3.0	$\mu\mu f$
OUTPUT: P TO (H+K+S)	1,1	1.6	μμf
CATHODE TO HEATER (EACH SECTION): (K TO H)	3.60	3.60	$\mu\mu$ f

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER MAXIMUM SYSTEM				
	TRIODE	PENTODE		
HEATER VOLTAGE	6.3	6.3	VOLTS	
MAXIMUM PLATE VOLTAGE	330	330	VOLTS	
MAXIMUM GRID #2 SUPPLY VOLTAGE		330	VOLTS	
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	0	VOLTS	
MAXIMUM PLATE DISSIPATION	3.0	3.1	WATTS	
MAXIMUM GRID #2 DISSIPATION		0.55	WATTS	
MAXIMUM GRID #1 RESISTANCE	100	100	KILOHMS	

CONTINUED ON FOLLOWING PAGE

TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

RATINGS - cont'd.

INTERPRETED ACCORDING TO DESIGN CENTER MAXIMUM SYSTEM

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER WARM-UP TIME*	11.0	SECONDS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	TRIODE	PENT OD	E
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.45	0.45	AMP.
PLATE VOLTAGE	150	125	VOLTS
GRID #2 VOLTAGE		125	VOLTS
CATHODE RESISTOR	56		OHMS
GRID #1 VOLTAGE		-1.0	VOLT
AMPLIFICATION FACTOR	40.0		
TRANSCONDUCTANCE	8500	6400	μMHOS
PLATE RESISTANCE (APPROX.)	5000	80000	OHMS
PLATE CURRENT	18.0	12.0	MA.
GRID #2 CURRENT		4.0	MA.
GRID #1 VOLTAGE (APPROX.) FOR Ib=10 μA	-12.0	-9.0	VOLTS
CATHODE WARM-UP TIMEA	35		SECONDS

* HEATER WARM UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TERMINALS TO INCREASE FROM ZERO TO THE HEATER TEST VOLTAGE (v_1) .

FOR TYPE 6EU8

A. CATHODE WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR TRANSCONDUCTANCE TO REACH 6500 /WHOS WHEN A TUBE IS OPERATED FROM A COLD START AT A PLATE POTENTIAL OF 100 VOLTS DC, ZERO GRID BIAS, AND AT A CONSTANT HEATER CURRENT OF 560 MILLIAMPERES FOR 5EU8 OR A HEATER POTENTIAL OF 5.5 VOLTS FOR THE 6EU8.