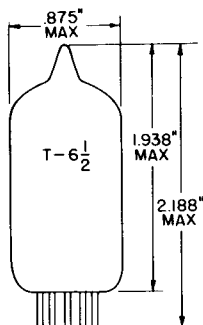


## TUNG-SOL

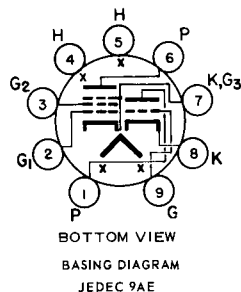
TRIODE PENTODE  
MINIATURE TYPE

GLASS BULB  
MINIATURE BOTTOM  
9 PIN BASE E9-1  
OUTLINE DRAWING  
JEDEC 6-2

COATED UNIPOTENTIAL CATHODE

FOR  
APPLICATION IN FM  
OR TV RECEIVERS

ANY MOUNTING POSITION



THE 5U8 COMBINES TWO ELECTRICALLY INDEPENDENT SECTIONS—A TRIODE AND A PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. BOTH UNITS ARE CAPABLE OF GOOD PERFORMANCE AT THE HIGH FREQUENCIES. THE TUBE MAY BE USED AS A LOCAL OSCILLATOR-PENTODE MIXER IN FM OR TELEVISION RECEIVERS OR IN THE MANY COMBINED FUNCTIONS OF SUCH RECEIVERS. IN

## DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD A	WITHOUT SHIELD	
PENTODE GRID 1 TO PENTODE PLATE: (PG1 TO PP) MAX.	→ 0.007	→ 0.015	pf
PENTODE INPUT: PG1 TO (H+PK+PG2+PG3+I.S.)	5.0	5.0	pf
PENTODE OUTPUT: PP TO (H+PK+PG2+PG3+I.S.)	3.5	2.6	pf
PENTODE CATHODE TO HEATER: H TO (PK+PG3+I.S.)	3.0 <sup>B</sup>	3.0	pf
TRIODE GRID TO TRIODE PLATE: (TG TO TP)	1.8	1.8	pf
TRIODE INPUT: TG TO (TK+H+PK+PG3+I.S.)	2.8	2.8	pf
TRIODE OUTPUT: TP TO (TK+H+PK+PG3+I.S.)	2.0	1.5	pf
TRIODE CATHODE TO HEATER (TK TO H)	3.0 <sup>B</sup>	3.0	pf
PENTODE GRID TO TRIODE PLATE (PG TO TP) (MAX.)	0.20	0.2	pf
PENTODE PLATE TO TRIODE PLATE (PP TO TP) (MAX.)	0.02	0.1	pf

HEATER CHARACTERISTICS AND RATINGS  
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	4.7 VOLTS	600	MA.
HEATER WARM-UP TIME <sup>C</sup>		11	SECONDS
HEATER SUPPLY LIMITS: CURRENT OPERATION		600±40	MA.
MAXIMUM HEATER CATHODE VOLTAGE: (EACH UNIT)			
HEATER NEGATIVE WITH RESPECT TO CATHODE TOTAL DC AND PEAK		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

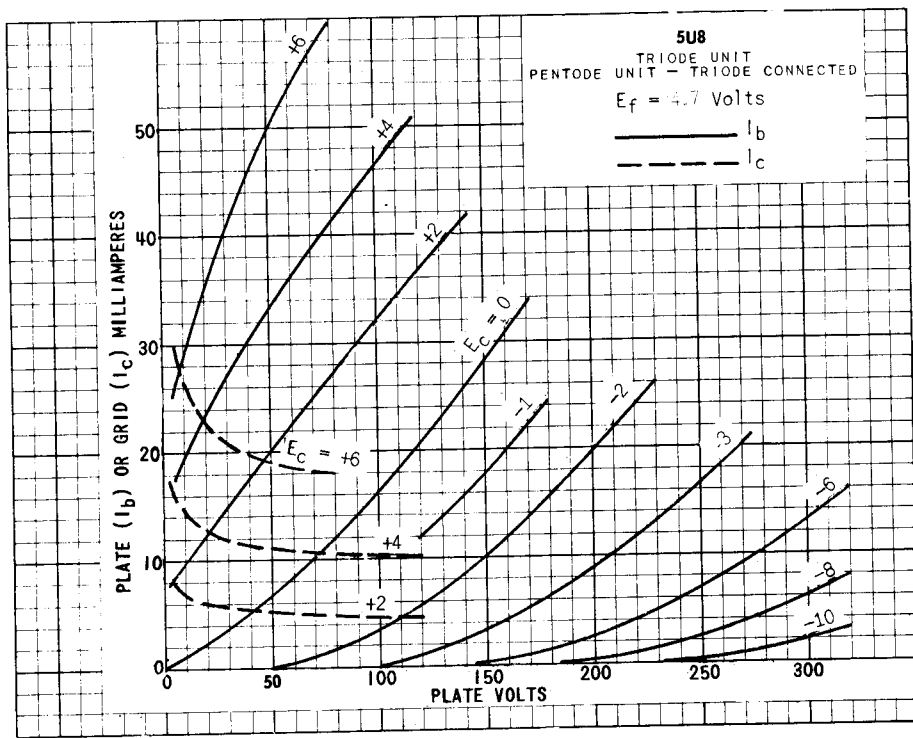
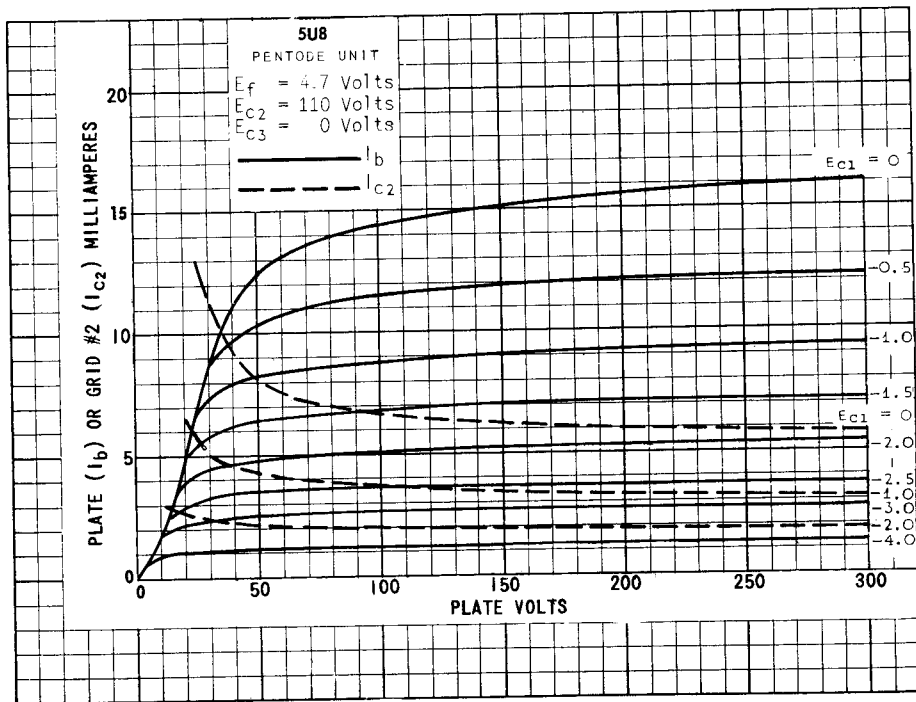
→ **MAXIMUM RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PENTODE PLATE VOLTAGE

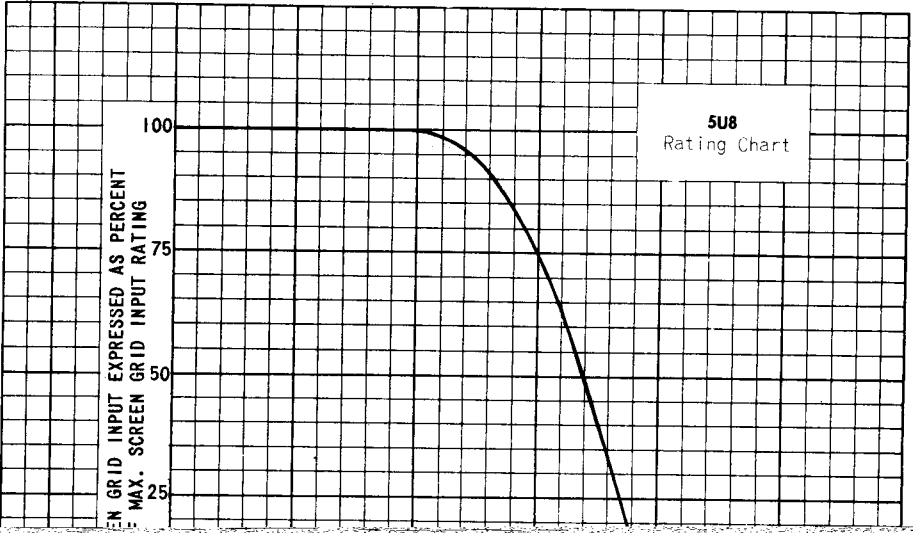
330

VOLTS



PRINTED IN U. S. A.

# 5U8



**5U8**  
 PENTODE UNIT  
 MIXER CHARACTERISTICS  
 WITH  
 SEPARATE OSCILLATOR EXCITATION

$E_f = 4.7$  Volts  
 $E_b = E_{c2} = 150$  Volts DC  
 $E_{c3} = 0$  Volts  
 $R_{c1} = 270\ 000$  Ohms

\_\_\_\_\_  $I_b$   
 - - - - -  $I_{c2}$   
 - - - - -  $g_c$

