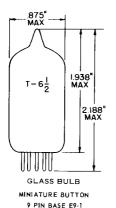
TUNG-SOL -

TRIODE PENTODE MINIATURE TYPE

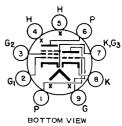


OUTLINE DRAWING JEDEC 6-2

COATED UNIPOTENTIAL CATHODE

FOR
APPLICATION IN FM
OR TV RECEIVERS

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 9AE

THE 608 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.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELDA	₩ITHOUT \$HIEŁD	
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 ⁸	3.0	pf
TRIODE GRID TO TRIODE PLATE: (TG TO TP)	1.8	1.8	pf
TRIODE INPUT: TG TO (TK+H+PK+PG3+J.S.)	2.8	2.8	pf
TRIODE OUTPUT: TP TO (TK+h+PK+PG3+1.5)	2.0	1.5	pf
TRIODE CATHODE TO HEATER (TK TO H)	3.0 ^B	3.0	ρf
PENTODE GRID TO TRIODE PLATE (PG TO TP) (MAX.)	0.20	0.2	of
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

TALESTO THE EIR STANDARD RS-239					
AVERAGE CHARACTERISTICS HEATER WARM-UP TIME C	6.3 VOLTS	450 11	MA. SECONDS		
HEATER SUPPLY LIMITS:					
VOLTAGE OPERATION		6.3±0.6	VOLTS		
MAXIMUM HEATER CATHODE VOLTAGE	: (EACH UNIT)				
HEATER NEGATIVE WITH RESPECT					
TOTAL DC AND PEAK		200	VOLTS		
HEATER POSITIVE WITH RESPECT T	O CATHODE				
DC		100	VOLTS		
TOTAL DC AND PEAK		200	VOL TS		

TUNG-SGL

CONTINUED FROM PRECEDING PAGE

→ MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PENTODE PLATE VOLTAGE	330	VOLTS	
TRIODE PLATE VOLTAGE	330	VOLTS	
GRID 2 SUPPLY VOLTAGE	330	VOLTS	
GRID 2 VOLTAGE	SEE RATING CHART		
PENTODE PLATE DISSIPATION	3.0	WATTS	
GRID 2 DISSIPATION: *			
FOR VOLTAGES UP TO 165 VOLTS	0.55	WATTS	
FOR VOLTAGES BETWEEN 165 & 330 VOLTS	SEE RATING CHART		
POSITIVE DC GRID 1 VOLTAGE	0	VOLTS	
POSITIVE DC TRIODE GRID VOLTAGE	0	VOLTS	
TRIODE PLATE DISSIPATION	2.5	WATTS	
PENTODE GRID 1 CIRCUIT RESISTANCE;*			
WITH CATHODE BIAS	1.0	MEGOHM	
WITH FIXED BIAS	0.5	MEGOHM	

TYPICAL OPERATING CHARACTERISTICS

CLASS A AMPLIFIER

	TRIODE	PENTODE	
PLATE VOLTAGE	125	125	VOLTS
GRID 2 VOLTAGE		110	VOLTS
GRID I VOLTAGE	-1.0	-1.0	VOLTS
TRANSCONDUCTANCE	7500	5000	μ MHOS
PLATE CURRENT	13.5	9.5	MA.
GRID 2 CURRENT		3.5	MA.
PLATE RESISTANCE (APPROX,)		0.2	MEGOHM
AMPLIFICATION FACTOR	40		
GRID 1 VOLTAGE (APPROX.) FOR 1b=20 µA	-9	- 8	VOLTS
ZERO BIAS TRANSCONDUCTANCE			
(WITH Eb=100 V; Ec2=70 V)*		5500	μ MHOS

THE 6U8A CURVES ALSO APPLY FOR THE 6U8.

A EXTERNAL SHIELD,315 CONNECTED TO PIN 4.

B EXTERNAL SHIELD 315 CONNECTED TO PIN 6.

[→] INDICATES A CHANGE.

^{*} INDICATES AN ADDITION.