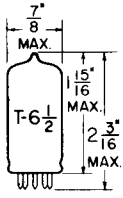
TUNG-SOL

TRIODE PENTODE

MINIATURE TYPE



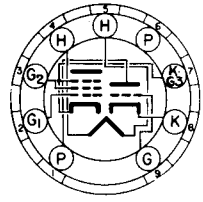
GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.60 AMP.

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
9 PIN BASE

9AE

THE 6GJ8 IS A SHARP CUTOFF PENTODE AND A MEDIUM MU TRIODE IN THE 9 PIN MINIATURE CONSTRUCTION. THE PENTODE SECTION IS INTENDED PRIMARILY FOR SERVICE AS AN OSCILLATOR IN THE HORIZONTAL DEFLECTION SYSTEM OF TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD[A]	WITHOUT SHIELD	
TRIODE SECTION:			
GRID TO PLATE	2.6	2.6	μμf
INPUT: G TO (H+K+Pk,G3,I.S.)	3.6	3.4	μμf
OUTPUT: P TO (H+K+Pk, G3,I.S.)	2.4	1.6	μμf
PENTODE SECTION:			
GRID #1 TO PLATE (MAX.)	0.025	0.036	μμf
INPUT: G1 TO (H+K G3, I.S.+G2)	8.0	8.0	μμf
OUTPUT: P TO (H+K G3, I.S.+G2)	3.2	2.4	μμf

[A] WITH EXTERNAL SHIELD 315 CONNECTED TO CATHODE OF SECTION UNDER TEST.

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE	6.3		VOLTS
MAXIMUM PLATE VOLTAGE	330	330	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE RATING CHART		
MAXIMUM GRID #2 SUPPLY VOLTAGE	---	330	VOLTS
MAXIMUM POSITIVE GRID VOLTAGE	0	0	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	2.5	VOLTS
MAXIMUM GRID #2 DISSIPATION	---	0.55	WATT
MAXIMUM GRID #1 CIRCUIT RESISTANCE:			
FIXED BIAS	1.0	---	MEGOHM
SELF BIAS	2.2	---	MEGOHM

CONTINUED ON FOLLOWING PAGE

PRINTED IN U.S.A.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

RATINGS - CONT'D.

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

HEATER VOLTAGE[B]	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
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
HEATER WARM-UP TIME* (APPROX.)	11.0	SECONDS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE[B]	6.3		VOLTS
HEATER CURRENT[C]	0.60		AMP.
PLATE VOLTAGE	125	125	VOLTS
GRID #2 VOLTAGE	---	125	VOLTS
GRID #1 VOLTAGE	-1.0	-1.0	VOLTS
PLATE CURRENT	13.5	12	MA.
GRID #2 CURRENT	---	4.5	MA.
TRANSCONDUCTANCE	8500	7500	μMHOS
AMPLIFICATION FACTOR	40	---	
PLATE RESISTANCE (APPROX.)	5000	150 000	OHMS
E_{c1} FOR I_b = 20 μA (APPROX.)	-9	-6.5	VOLTS

*HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

[B] FOR PARALLEL HEATER OPERATION, EQUIPMENT SHOULD BE SO DESIGNED SO THAT AT NORMAL SUPPLY VOLTAGE BOGEY TUBES WILL OPERATE AT THIS VALUE OF HEATER VOLTAGE.

[C] FOR SERIES HEATER OPERATION, EQUIPMENT SHOULD BE SO DESIGNED SO THAT AT NORMAL SUPPLY VOLTAGE BOGEY TUBES WILL OPERATE AT THIS VALUE OF HEATER CURRENT.