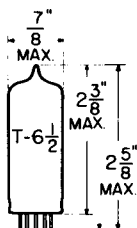


TUNG-SOL

TRIODE PENTODE

MINIATURE TYPE



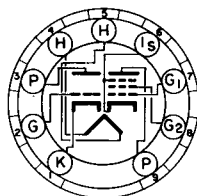
GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.75 AMP.

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON

9 PIN BASE

9DX

THE 6GN8 IS A HIGH MU TRIODE AND A SHARP CUTOFF PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. THE TRIODE SECTION IS DESIGNED FOR USE AS A VOLTAGE AMPLIFIER OR SYNC-SEPARATOR. THE PENTODE SECTION IS DESIGNED FOR VIDEO AMPLIFIER SERVICE FEATURING A CONTROLLED PLATE KNEE CHARACTERISTIC. EXCEPT FOR HEATER RATINGS AND HEATER WARM-UP TIME, THE 6GN8 IS IDENTICAL TO THE 8GN8.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

TRIODE SECTION

GRID TO PLATE	4.4	$\mu\mu\text{f}$
INPUT: G TO (H+K)	2.4	$\mu\mu\text{f}$
OUTPUT: P TO (H+K)	0.36	$\mu\mu\text{f}$

PENTODE SECTION

GRID #1 TO PLATE (MAX.)	0.1	$\mu\mu\text{f}$
INPUT: G1 TO (H+K+G2+G3+I.S.)	11	$\mu\mu\text{f}$
OUTPUT: P TO (H+K+G2+G3+I.S.)	4.2	$\mu\mu\text{f}$

COUPLING

TRIODE GRID TO PENTODE PLATE (MAX.)	.018	$\mu\mu\text{f}$
PENTODE GRID #1 TO TRIODE PLATE (MAX.)	.005	$\mu\mu\text{f}$
PENTODE PLATE TO TRIODE PLATE (MAX.)	0.17	$\mu\mu\text{f}$

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM ^A

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE	6.3		VOLTS
MAXIMUM PLATE VOLTAGE	330	330	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE		330	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

RATINGS - CONT'D.
 INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM^A

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE		6.3	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE RATING CHART		
MAXIMUM POSITIVE GRID #1 VOLTAGE	0	0	VOLTS
MAXIMUM PLATE DISSIPATION	1.0	5.0	WATTS
MAXIMUM GRID #2 DISSIPATION		1.1	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE:			
FIXED BIAS	0.5	0.25	MEGOHM
CATHODE BIAS	1.0	1.0	MEGOHM
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

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE		6.3	VOLTS
HEATER CURRENT		0.75	AMP
PLATE VOLTAGE	250	200	VOLTS
GRID #2 VOLTAGE		150	VOLTS
GRID #1 VOLTAGE	-2		VOLTS
CATHODE BIAS RESISTOR		100	OHMS
PLATE CURRENT	2	25	MA.
GRID #2 CURRENT		5.5	MA.
TRANSCONDUCTANCE	2700	11500	μ MHOS
AMPLIFICATION FACTOR	100		
PLATE RESISTANCE	37000	60000	OHMS
Ec1 FOR Ib = 100 μ A (APPROX.)		-10	VOLTS
Ec1 FOR Ib = 20 μ A (APPROX.)	-5		VOLTS

INSTANTANEOUS PLATE KNEE CHARACTERISTICS

PENTODE SECTION

Eb = 60 VOLTS, Ec2 = 150 VOLTS AND Ec1 = 0 VOLTS
 Ib = 55 MA AND Ic2 = 18 MA.

A. DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO 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.

