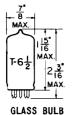
— TUNG-SOL —

TRIODE-PENTODE

MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.45 AMP.
AC OR DC

ANY MOUNTING POSITION



SMALL BUTTON 9 PIN BASE

THE 6GH8 IS A SHARP-CUTOFF PENTODE AND A MEDIUM-MU TRIODE CONTAINED IN A 9 PIN MINIATURE ENVELOPE. EACH SECTION HAS A SEPARATE CATHODE AND IS ELECTRICALLY INDEPENDENT. THE PENTODE SECTION IS INTENDED PRIMARILY FOR SERVICE AS AN OSCILLATOR IN THE HORIZONTAL DEFLECTION SYSTEM OF TELEVISION RECEIVERS. EXCEPT FOR HEATER CHARACTERISTICS, THE 6GH8 IS IDENTICAL TO THE 56H8.

DIRECT INTERELECTRODE CAPACITANCES -

PENTODE SECTION:	SHIELD ^A	SHIELD	
GRID #1 TO PLATE: (Pgi TO Pp) (MAX.)	0.015	0.02	$\mu\mu$ t
INPUT: Pg1 TO (H+Pk+Pg2+Pg3+1.S.)	5.5	5.5	$\mu\mu$ f
OUTPUT: Pp TO (H+Pk+Pg2+Pg3+I.S.)	3.4	2.6	$\mu\mu$ f
HEATER TO CATHODE (Pk TO H)	3.0 ^B	3.0	$\mu\mu$ f
TRIODE SECTION:			
GRID TO PLATE: (Tg TO Tp)	1.6	1.6	$\mu\mu$ f
INPUT: Tg TO (Tk+H+Pk+Pg3+1.S.)	3.6	3.4	μμ f
OUTPUT: Tp TO (Tk+H+Pk+Pg3+I.S.)	2.2	1.7	$\mu\mu$ f
HEATER TO CATHODE: (Tk TO H)	3.0 ^B	3.0	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

	SECTION (HORIZONTAL OSCILLATOR SERVICE)	TRIODE SECTION	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM ALLOWABLE HEATER CURRENT	0.42 to	0.48	AMP.
MAXIMUM DC PLATE VOLTAGE	350	330	VOLTS
MAXIMUM SCREEN SUPPLY VOLTAGE	330		VOLTS
MAXIMUM SCREEN VOLTAGE SEE	SCREEN RATING	CHART	
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	0	VOLTS
MAXIMUM PEAK NEGATIVE DC GRID #1 VOLTAGE	175		VOLTS
MAXIMUM PLATE DISSIPATION	2.5	2.5	WATTS
MAXIMUM SCREEN DISSIPATION	0.55		WATTS
MAXIMUM DC CATHODE CURRENT	20		MA.
MAXIMUM PEAK CATHODE CURRENT	300		MA.

- INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

RATINGS — CONTID. INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

	PENTODE C SECTION (HORIZONTAL OSCILLATOR SERVICE)	TRIODE Section	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATH	ODE		
DC COMPONENT	100	100	VOLTS
TOTAL DC AND PEAK	200	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATH	ODE		
TOTAL DC AND PEAK	200	200	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE			
WITH FIXED BIAS	2.2	2,2	MEGOHMS
WITH CATHODE BIAS	2.2	2.2	MEGOHMS
HEATER WARM-UP TIME (APPROX.)*	11.0		SECONDS

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 IMPOURDUDT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE DEFRATING COMDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AVERAGE CHARACTERISTICS

	PENTODE Section	TRIODE Section	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.45	0.45	AMP.
PLATE VOLTAGE	125	125	VOLTS
SCREEN VOLTAGE	125		VOLTS
GRID #1 VOLTAGE	-1.0	-1.0	VOLTS
AMPLIFICATION FACTOR		46	
PLATE RESISTANCE (APPROX.)	200 000	5400	OHMS
TRANSCONDUCTANCE	7500	8500	μ MHOS
PLATE CURRENT	12	13.5	MA.
SCREEN CURRENT	4.0		MA.
GRID #1 VOLTAGE (APPROX.)			
$I_b = 10 \mu AMPS$.	-8	-8	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 PESISTANCE.

Awith external shield 315 connected to cathode of section under test unless otherwise indicated.

Bwith external shield 315 connected to ground.

C-FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.