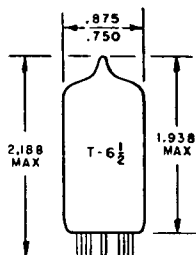


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB
SMALL BUTTON
9 PIN BASE E9-1
OUTLINE DRAWING
JEDEC 6-2

SEMI-REMOTE-CUTOFF PENTODE

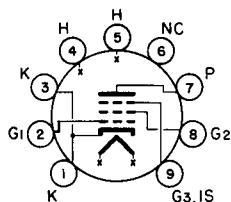
FOR

I.F. AMPLIFIER STAGES

IN TV RECEIVERS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM
JEDEC 9 PM

THE 6HT6 IS A SEMI-REMOTE-CUTOFF PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE IN TELEVISION RECEIVER I.F. AMPLIFIER STAGES. THE SEMI-REMOTE CUTOFF CHARACTERISTICS IS DESIRABLE FOR USE IN AGC CONTROLLED STAGES, EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 6HT6 IS IDENTICAL TO THE 3HT6 AND THE 4HT6.

DIRECT INTERELECTRODE CAPACITANCES

	SHIELD 315 CONNECTED TO GROUND	UNSHIELDED	
GRID 1 TO PLATE	0.024	0.031	pf
INPUT	8.70	8.70	pf
OUTPUT	3.00	2.15	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	300	MA.
LIMITS OF APPLIED VOLTAGE		6.3 ± 0.6	VOLTS
HEATER CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS

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MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	250	VOLTS
GRID 2 SUPPLY VOLTAGE	250	VOLTS
GRID 2 VOLTAGE	SEE RATING CHART	
GRID 1 VOLTAGE	-50	VOLTS
PLATE DISSIPATION	2.5	WATTS
GRID 2 DISSIPATION	0.6	WATTS
CATHODE CURRENT	25	MA.
GRID 1 CIRCUIT RESISTANCE:		
CATHODE BIAS RESISTOR	1	MEGOHM
FIXED BIAS	0.25	MEGOHM

CHARACTERISTICS AND TYPICAL OPERATION

PLATE VOLTAGE	125	VOLTS
GRID 3 VOLTAGE	CONNECTED TO CATHODE AT SOCKET	
GRID 2 VOLTAGE	125	VOLTS
CATHODE BIAS RESISTOR	56	OHMS
PLATE CURRENT	15	MA.
GRID 2 CURRENT	4.0	MA.
TRANSCONDUCTANCE	14,000	μ MHOS
PLATE RESISTANCE	0.143	MEGOHM
GRID 1 CUTOFF BIAS FOR $G_m = 50 \mu$ MHOS	-6.7	VOLTS
CUTOFF TRANSCONDUCTANCE:		
FOR $E_{c1} = -1.5$	12,000	μ MHOS
FOR $E_{c1} = -3.5$	300	μ MHOS
HOT INPUT RESISTANCE ^A	12,700	OHMS
HOT INPUT CAPACITANCE ^A	7.45	pf

A - MEASURED 44 Mc./s WITH UNBYPASSED 56 OHM CATHODE RESISTANCE

