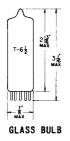
TUNG-SOL -

PENTODE MINIATURE TYPE



UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.8 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW SMALL-BUTTON NOVAL 9 PIN BASE 9 H N

THE 6EM5 IS A BEAM POWER PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION AND IS INTENDED FOR USE AS THE VERTICAL DEFLECTION AMPLIFIER IN HIGH-EF-FICIENCY DEFLECTION CIRCUITS OF TV RECEIVERS WHICH USE PICTURE TUBES WITH A 110° DIAGONAL DEFLECTION ANGLE. WITH THE EXCEPTION OF HEATER RATINGS AND HEATER WARM-UP TIME, THE 6EM5 IS IDENTICAL TO THE 8EM5.

DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	0.7	$\mu\mu$ f
GRID #1 TO CATHODE & G3, G2, AND. HEATER	10	$\mu\mu$ f
PLATE TO CATHODE & G3, G2, AND HEATER	5.1	$\mu\mu$ f

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

VERTICAL DEFLECTION AMPLIFIER

VERTICAL DEFLECTION AWELIFIER		
HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PLATE VOLTAGE:		
OC	315	VOLTS
PEAK POSITIVE PULSE (ABS. MAX.) ^B	2 200 ^c	VOLTS
MAXIMUM GRID #2 VOLTAGE	285	VOLTS
MAXIMUM PEAK NEGATIVE-PULSE GRID #1 VOLTAGE	-250	VOLTS
MAXIMUM CATHODE CURRENT:		
PEAK	210	MA.
AVERAGE	60	MA.
MAXIMUM PLATE DISSIPATION	10	WATTS
MAXIMUM GRID #2 INPUT	1.5	WATTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	200_	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200 ^D	VOLTS
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT)	250	°c
MAXIMUM CIRCUIT VALUES:		
GRID #4 CIRCUIT RESISTANCE:		
FOR FIXED-BIAS OPERATION	2.2	MEGOHMS
FOR CATHODE-BIAS OPERATION	2.2	MEGOHMS

TUNG-SOL -

CONTINUED FROM PRECEEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.8	0.8	AMP.
PLATE VOLTAGE	60	250	VOLTS
GRID #2 (SCREEN-GRID) VOLTAGE	250	250	VOLTS
GRID #1 (CONTROL-GRID) VOLTAGE	0	-18	VOLTS
MU-FACTOR, GRID #1 TO GRID #2		8.7	
TRANSCONDUCTANCE		5100	μ MHOS
PLATE CURRENT	180 ^E	40	MA.
GRID #2 CURRENT	30 ^E	3	MA.
PLATE RESISTANCE (APPROX.)		50 000	OHM5
GRID #4 VOLTAGE FOR PLATE CURRENT O. 2 MA.		-37	

. INDICATES AN ADDITION.

 $^{\rm B}$ 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.

 $^{ extsf{C}}_{ extsf{UNDER}}$ no circumstances should this absolute value be exceeded.

DTHE DC COMPONENT MUST NOT EXCEED 100 VOLTS

ETHESE VALUES CAN BE MEASURED BY A METHOD INVOLVING A RE-CURRENT WAVEFORM SUCH THAT THE PLATE DISSIPATION AND GRID #2 INPUT WILL BE KEPT WITHIN RATINGS. IN ORDER TO PREVENT DAMAGE TO THE TIBE.

