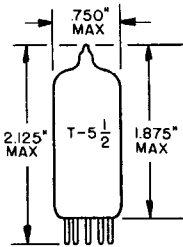


**TUNG-SOL**

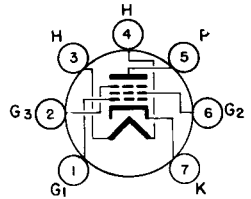
PENTODE  
MINIATURE TYPE

FOR  
VOLTAGE AMPLIFIER SERVICE  
IN TV APPLICATIONS

ANY MOUNTING POSITION



GLASS BULB  
MINIATURE BUTTON  
7 PIN BASE E7-1  
OUTLINE DRAWING  
JEDEC 5-2



BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 7CC

THE 6485 IS A HIGH TRANSCONDUCTANCE, SHARP CUT-OFF PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A WIDE BAND OR IF AMPLIFIER. THE TUBE WILL MAINTAIN ITS EMISSION AND FREEDOM FROM EXCESSIVE CATHODE INTERFACE RESISTANCE EVEN AFTER LONG PERIODS OF OPERATION UNDER CUT-OFF CONDITIONS. OTHERWISE, THE 6485 IS IDENTICAL TO THE 6AH6.

**DIRECT INTERELECTRODE CAPACITANCES**

	WITHOUT SHIELD	WITH A SHIELD	
GRID 1 TO PLATE: (G1 TO P) (MAX.)	0.030	0.020	pf
INPUT: G1 to (H + K + G2 + G3)	10	10	pf
OUTPUT: P TO (H + K + G2 + G3)	2.0	3.6	pf

**HEATER CHARACTERISTICS AND RATINGS**

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	450	MA.
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**MAXIMUM RATINGS**

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	300	VOLTS
GRID 2 VOLTAGE	150	VOLTS
PLATE DISSIPATION <sup>B</sup>	3.2	WATTS
GRID 2 DISSIPATION	0.6	WATT
CATHODE CURRENT	25	MA.

<sup>A</sup> USING JEDEC SHIELD 316 CONNECTED TO CATHODE.

CONTINUED ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CHARACTERISTICS

	PENTODE CONNECTED	TRIODE CONNECTED	
PLATE VOLTAGE	300	150	VOLTS
GRID 2 VOLTAGE	150	D	VOLTS
CATHODE RESISTOR	160	160	OHMS
PLATE CURRENT	10	12.5	MA.
TRANS CONDUCTANCE	9000	11000	μMHOS
AMPLIFICATION FACTOR		40	
PLATE RESISTANCE	0.5	.0036	MEGOHMS
GRID 2 CURRENT	2.5		MA.
GRID 1 VOLTAGE FOR $I_b = 10 \mu A$ . (APPROX.)	-7	-7	VOLTS
TRANS CONDUCTANCE (GRID 3 - PLATE)	C		

B AT MAXIMUM RATINGS, IT IS NECESSARY THAT AT LEAST ONE SURFACE OF THE SHIELD, IF USED BE BLACK-ENED.

C GRID 3 HAS PRACTICALLY NO CONTROL CHARACTERISTICS AND IT IS NOT INTENDED TO BE USED AS A CONTROL ELECTRODE. ITS TRANS CONDUCTANCE TO THE PLATE APPROXIMATES 2 MICROMHOS AND THE  $\mu$  IS 0.7 TO 1.0

D GRID 2 AND GRID 3 TIED TO PLATE

INPUT COUPLING AND SYNC. POLARITY	OUTPUT VOLTS P P	VOLTAGE GAIN	MAX. WATTS DISSIPATION		CATHODE RESISTOR OHMS	CATHODE CURRENT		GRID RESISTOR OHMS
			SCREEN	PLATE		NO SIG. (MA.)	WITH SIG. (MA.)	
DC-	66	22	0.6	3.2	39	20	13	5000
DC+	100	25	0.4	3.2	270	8	15	5000
AC-	100	25	0.4	3.2	39	20	21	1 meg.
AC+	100	25	0.6	3.2	39	20	18	1 meg.

ALL DATA TAKEN WITH SCREEN VOLTAGE OF 150 AND PLATE LOAD OF  
4000 OHMS WITH TYPICAL ON-THE-AIR TELEVISION SIGNALS AND  
AVERAGE PRODUCTION TUBES

