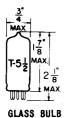
TUMB-SOL -

PENTODE MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HEATER
12.6 VOLTS 0.190 AMP.
AC OR DC
ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

THE 12EK6 IS A SHARP CUTOFF PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A VHF, RF OR IF AMPLIFIER IN APPLICATIONS WHERE THE HEATER, PLATE AND GRID \$2 POTENTIALS ARE SUPPLIED DIRECTLY FROM A 12 VOLT AUTOMOTIVE STORAGE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID TO PLATE (MAX.)	0.036 ←	μμf
INPUT: G ₄ TO (H+K+G ₂ +G ₃) OUTPUT: P TO (H+K+G ₂ +G ₃)	10	$\mu\mu$ f
OUTPUT: \bar{P} TO (H+K+G $\frac{1}{2}$ +G $\frac{1}{3}$)	5.0 ←	μμ f

RATINGS INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM A

HEATER VOLTAGE ^B	12.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	16	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	16	VOLTS
MAXIMUM PLATE VOLTAGE	16	VOLTS
MAXIMUM GRID #2 VOLTAGE	16	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	10	MEGOHMS

A 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 SERVICEABLELITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHARGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT IFE 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 COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATIONS.

BTHIS TUBE IS INTENDED TO BE USED IN AUTOMOTIVE SERVICE FROM A MOMINAL 12 VOLT BATTERY SOURCE. THE HEATER IS THEREFORE DESIGNED TO OPERATE OVER THE 10.0 TO 15.9 VOLTAGE RANGE ENCOUNTERED IN THIS SERVICE. THE MAXIMUM RATINGS OF THE TUBE PROVIDE FOR AN ADEQUATE SAFETY FACTOR SUCH THAT THE TUBE WILL WITHSTAND THE WIDE VARIATION IN SUPPLY VOLTAGES.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL ---

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.2	AMP.
PLATE VOLTAGE	12.6	VOLTS
GRID #2 VOLTAGE	12.6	VOLTS
GRID #4 VOLTAGE C		
GRID #1 RESISTOR	2.2	MEGOHMS
PLATE CURRENT	4.0 -	MA.
GRID #2 CURRENT	1.7 ←	MA.
TRANSCONDUCTANCE	4 200	µмноs
PLATE RESISTANCE (APPROX.)	50 000 ←	OHMS
GRID #1 VOLTAGE FOR $I_b^=$ 10 μ A	- 3.8 ←	VOLTS

 $^{^{\}mathrm{C}}$ average contact potential bias developed across specified grid resistor.

[→] INDICATES A CHANGE.