TUNG-SOL -

HEPTODE

MINIATURE TYPE



RF SIGNALS.

COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

THE 12EG6 IS A DUAL CONTROL HEPTODE WITH A UNIPOTENTIAL CATHODE IN THE 7-PIN MINIATURE CONSTRUCTION. IT IS INTENDED AS AN RF AMPLIFIER IN SUPERHETERODYNE RECEIVERS WHERE THE HEATER, PLATE AND SCREEN GRID POTENTIALS ARE OBTAINED DIRECTLY FROM AN AUTOMOTIVE BATTERY. THE DESIGN OF THIS TYPE PERMITS THE APPLICATION OF AVC CONTROL VOLTAGE TO TWO CONTROL GRIDS THEREBY REDUCING BACK BIASING OF THE AVC LINE WITH LARGE

DIRECT INTERELECTRODE CAPACITANCES

	WITH ^A Shield	
MIXER GRID TO PLATE: (G3 TO P) MAX.	0.25	$\mu\mu$ f
MIXER GRID TO OSCILLATOR GRID: (G3 TO G4) MAX.	0.15	$\mu\mu$ f
RF INPUT: G3 TO (H+K+G1+G244+G5+P)	6.5	μμ f
OSCILLATOR INPUT: G1 TO (H+K+G1+G24+G3+G5)	5.7	μμ f
MIXER OUTPUT: P TO (H+K+G1+G24+G3+G5)	12	μμ f
OSCILLATOR GRID TO CATHODE: (GA TO K+G5)	3.2	$\mu\mu$ f
OSCILLATOR OUTPUT: K TO (H+G2&4+G3+P)	23	$\mu\mu$ f
OSCILLATOR GRID TO PLATE: (G, TO P) MAX.	0.04	μμ f

RATINGSB

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
MAXIMUM HEATER-CATHODE VOLTAGE	±30	VOLTS
MAXIMUM PLATE VOLTAGE	30	VOLTS
MAXIMUM GRIDS #2 & #4 VOLTAGE	30	VOLTS
MAXIMUM GRIDS #2 & #4 SUPPLY VOLTAGE	30	VOLTS
MAXIMUM NEGATIVE DC GRID #3 VOLTAGE	30	VOLTS
MAXIMUM POSITIVE DC GRID #3 VOLTAGE	O	VOLTS
MAXIMUM CATHODE CURRENT	20	MA.
MAXIMUM GRID #3 CIRCUIT RESISTANCE	10	ME GOHMS

AEXTERNAL SHIELD #316 CONNECTED TO PIN #2.

CONTINUED ON FOLLOWING PAGE

BTHIS TUBE IS INTENDED TO BE USED IN AUTOMOTIVE SERVICE FROM A NOMINAL 12 VOLT BATTERY SOURCE.
THE MEATER 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.

---- TUNG-80L ----

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERASTICS

HEPTODE CONNECTED

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
PLATE VOLTAGE	12.6	VOLTS
GRIDS #2 & #4 VOLTAGE	12.6	VOLTS
GRIO #3 VOLTAGE	-0.8 ^c	VOLTS
GRID #1 VOLTAGE	-0.8 ^D	VOLTS
PLATE CURRENT	400	μAMPS
SCREEN CURRENT	2 400	µAMPS.
TRANSCONDUCTANCE E	800	μMHOS.
PLATE RESISTANCE (APPROX.)	0.15	MEGOHMS
GRID #3 VOLTAGE C AND GRID #1 VOLTAGE (APPROX.)		
FOR $G_m^E = 10 \mu MHOS$	-3.0	VOLTS

 $c_{provided\ \mbox{\footnotesize{BY GRID}}}$ #1 voltage through a suitable grid #3 resistor.

Daverage BIAS DEVELOPED ACROSS A 2.2 MEGOHM GRID RESISTOR.

EFROM GRID #3 TO PLATE.