

TUNG-SOL

DOUBLE-DIODE-PENTODE

MINIATURE TYPE

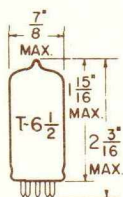
COATED UNIPOTENTIAL CATHODE

HEATER

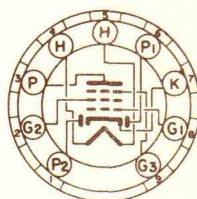
12.6 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW

MINIATURE BUTT
9 PIN BASE

9FH

THE 12F8 IS A COMBINED DOUBLE DETECTOR DIODE AND REMOTE CUT-OFF PENTODE WITH A COMMON UNIPOTENTIAL CATHODE IN THE 9 PIN MINIATURE CONSTRUCTION. THE PENTODE SECTION IS INTENDED FOR USE AS AN AF VOLTAGE AMPLIFIER 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 VOLTAGE TO THE CONTROL GRID THEREBY IMPROVING OVERALL RECEIVER AVC.

DIRECT INTERELECTRODE CAPACITANCES

INPUT: (G_1 TO G_2+G_3+H+K)	4.5	$\mu\mu f$
OUTPUT: (P TO G_2+G_3+H+K)	3.0	$\mu\mu f$
GRID TO PLATE: (G_1 TO P)	.06	$\mu\mu f$
DIODE TO DIODE	0.3	$\mu\mu f$

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	12.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	± 30	VOLTS
MAXIMUM PLATE VOLTAGE	30	VOLTS
MAXIMUM GRID #2 VOLTAGE	30	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	10.0	MEG OHMS
MAXIMUM AVERAGE DIODE CURRENT	1	MA.

* THIS TUBE IS INTENDED TO BE USED IN AUTOMOTIVE SERVICE FROM A NOMINAL 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.

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
PLATE VOLTAGE	12.6	VOLTS
GRID #2 VOLTAGE	12.6	VOLTS
GRID #1 VOLTAGE	0	VOLTS
PLATE CURRENT	1.0	MA.
GRID #2 CURRENT	0.38	MA.
TRANSCONDUCTANCE	1000	μ MHOS
PLATE RESISTANCE (APPROX.)	.33	MEGOHM
GRID #1 VOLTAGE (APPROX.) FOR $G_m = 10 \mu$ MHOS	-5	VOLTS
AVERAGE DIODE CURRENT WITH 10 VOLTS DC APPLIED	2	MA.

