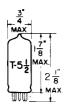
- TUNG-SOL -

PENTODE MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HEATER

12.6* VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION

GLASS BULB

BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE
78K

THE 12AF6 IS A MINIATURE PENTODE INTENDED FOR USE AS A RADIO-FREQUENCY OR INTERMEDIATE-FREQUENCY AMPLIFIER IN AUTOMOBILE RADIO RECEIVERS. THE TUBE IS SPECIALLY DESIGNED TO OPERATE WITH PLATE AND SCREEN VOLTAGES SUPPLIED DIRECTLY FROM A 12-VOLT STORAGE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE, (MAX.) INPUT OUTPUT	0.006 5.5 4.8	<i>րդ</i> . f <i>րդ</i> . f
RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM		
HEATER VOLTAGE	12.6	VOLTS
MAXIMUM PLATE VOLTAGE	16	VOLTS
MAXIMUM SCREEN VOLTAGE	16	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE		
HEATER POSITIVE WITH RESPECT TO CATHODE	16	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE	16	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	2.2	MEGOHMS

^{*}WHEN USED IN AUTOMOTIVE SERVICE FROM A 12-VOLT SOURCE, UNDER NO CIRCUMSTANCES SHOULD THE HEATER VOLTAGE BE LESS THAN 10.0 VOLTS OR MORE THAN 15.9 VOLTS. THESE EXTREME VARIATIONS IN HEATER VOLTAGE MAY BE TOLERATED FOR SHORT PERIODS; HOWEVER, OPERIOD AT OR HEAR THESE ABSOLUTE LIMITS IN HEATER VOLTAGE RECESSARILY INVOLVES SACRIFICE IN PERFORMANCE AT LOW HEATER VOLTAGE AND IN LIFE EXPECTANCY AT HIGH HEATER VOLTAGE. EQUIPMENT RELIABILITY CAN BE SIGNIFIC CANTLY INCREASED WITH IMPROVED SUPPLY-VOLTAGE REGULATION.

DESIGN-MAXIMUM RATINGS ARE THE LIMITING VALUES EXPRESSED WITH RESPECT TO BOGIE TUBES AT WHICH SATISFACTORY TUBE LIFE CAM BE EXPECTED TO OCCUR. TO OBTAIN SATISFACTORY CIRCUIT PERFORMANCE, THEREFORE, THE EQUIPMENT DESIGNER MUST BESTABLISH THE CIRCUIT DESIGN SO THAT NO DESIGN-MAXIMUM VALUE IS EXCECDED WITH A BOGIE TUBE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, AND ENVIRONMENTAL CONDITIONS

CONTINUED ON FOLLOWING PAGE

- TUNS-SOL .

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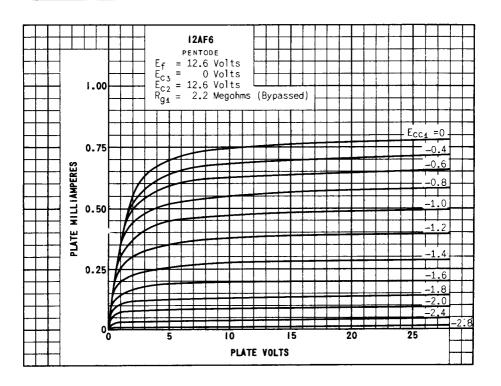
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

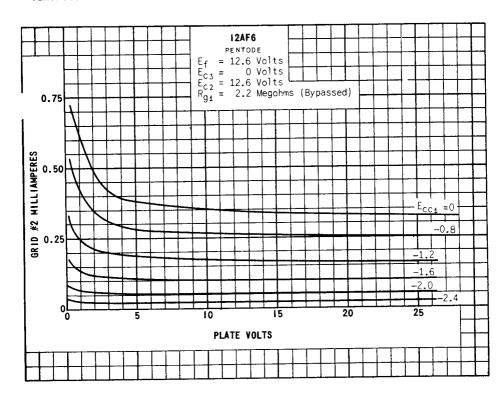
CLASS A_l AMPLIFIER

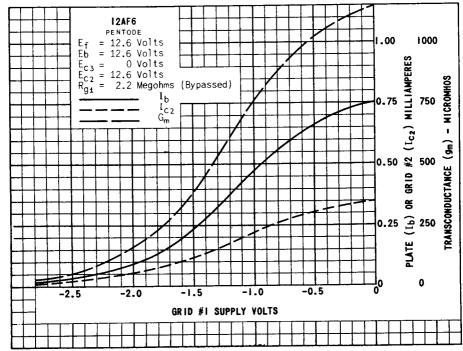
HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
PLATE VOLTAGE	12.6	VOLTS
SUPPRESSOR VOLTAGE	0	VOLTS
SCREEN VOLTAGE	12.6	VOLTS
GRID #1 SUPPLY VOLTAGE	0	VOLTS
GRID #4 RESISTOR (BYPASSED)	2.2	MEGOHMS
PLATE RESISTANCE (APPROX.)	→ 0.35	MEGOHMS
TRANSCONDUCTANCE	→ 1500	μ MHOS
PLATE CURRENT	→ 1.1	MA.
SCREEN CURRENT	→ 0.45	MA.
GRID #4 VOLTAGE (APPROX.) Gm =40 μMHOS	-2.7	VOLTS
GRID #1 VOLTAGE (APPROX.) MEASURED *		
WITH GRID #1 TIED TO GRID #3,		
$R_{g1} = O$, $G_m = 10 \mu MHOS$	-3.5	VOLTS

* INDICATES AN ADDITION.

--- INDICATES A CHANGE.







TUNG-SOL ELECTRIC INC. ELECTRON TUBE DIVISION BLOOMFIELD, NEW JERSEY, U.S.A. APRIL 1, 1956 PLATE #4628