TUNG-SOL

PENTODE

MINIATURE TYPE

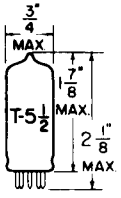
COATED UNIPOTENTIAL CATHODE

HEATER

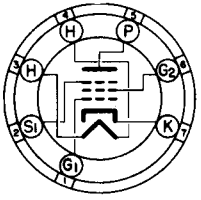
12.6 VOLTS .175 AMP.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

THE 12EZ6 IS A SHARP CUTOFF PENTODE WITH A UNIPOTENTIAL CATHODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE AS AN RF OR IF AMPLIFIER WHERE THE HEATER, PLATE AND SCREEN GRID POTENTIALS ARE OBTAINED DIRECTLY FROM AN AUTOMOTIVE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE (MAX.)	.008	μμf
INPUT:	7.8	μμf
OUTPUT:	5.5	μμf

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 CATHODE CURRENT	10	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	10	MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

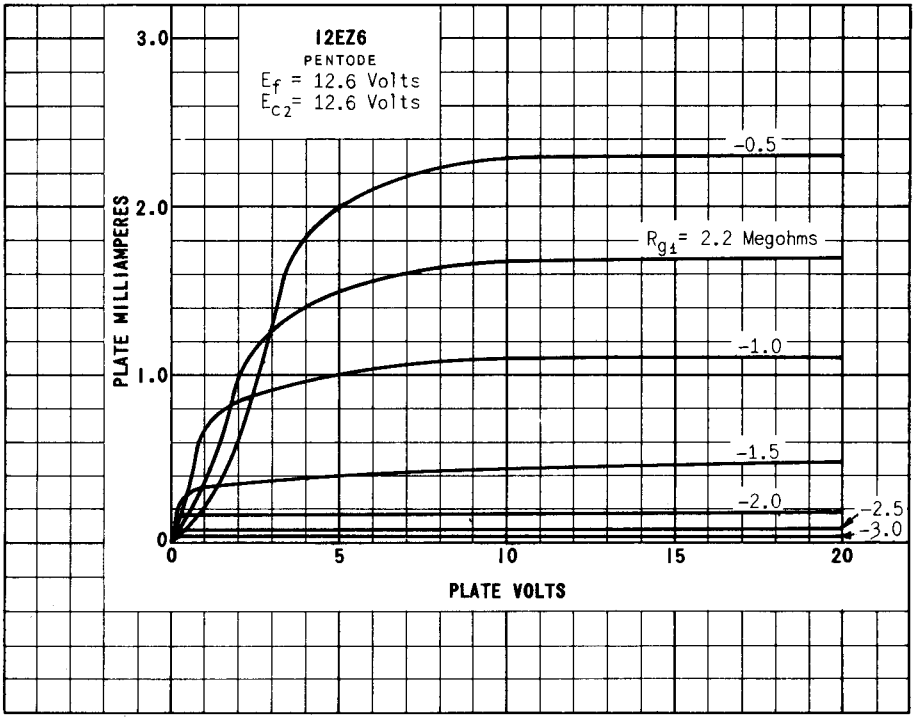
CLASS A_1 AMPLIFIER

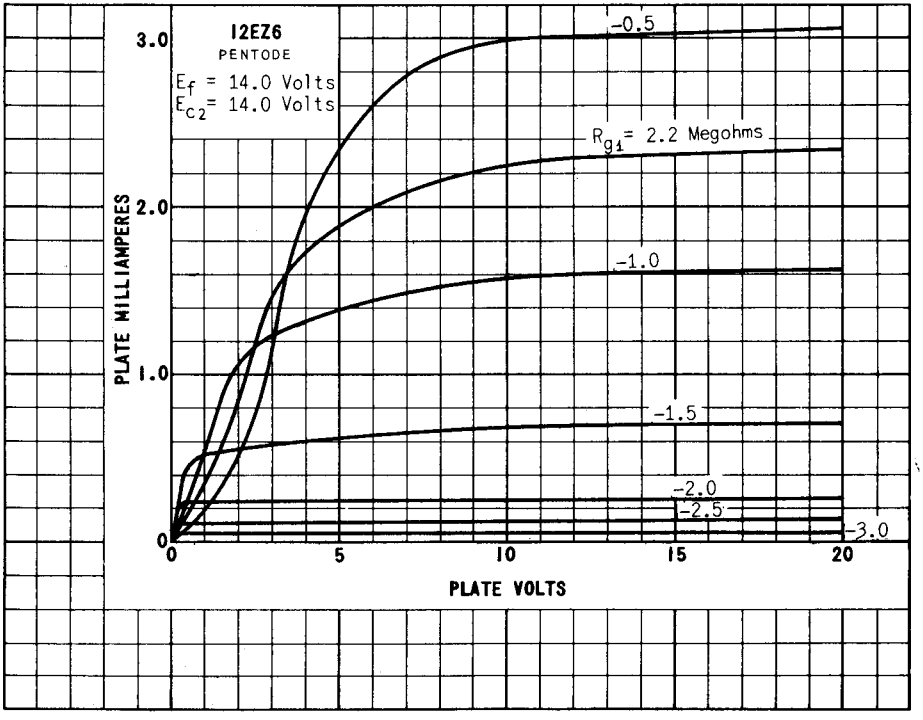
HEATER VOLTAGE	12.6	14.0	VOLTS
HEATER CURRENT	.175	.175	AMP.
PLATE VOLTAGE	12.6	14.0	VOLTS
GRID #3 VOLTAGE[B]	0	0	VOLTS
GRID #2 VOLTAGE	12.6	14.0	VOLTS
GRID #1 VOLTAGE	-0.7	-0.8[D]	
PLATE CURRENT	1.9	2.3	MA.
GRID #2 CURRENT	0.7	0.85	MA.
PLATE RESISTANCE	0.40	0.30	MEGOHMS
TRANSCONDUCTANCE[C]	2700	3000	μMHOS
GRID #1 VOLTAGE FOR I_b=50 μMHOS	-2.6	-2.8	VOLTS
GRID #1 & GRID #3 VOLTAGE FOR G_m=30 μMHOS	-2.8	-3.0	VOLTS

[A] 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.

[B] CONNECTED TO CATHODE AT SOCKET. [C] FROM GRID #1 TO PLATE.

[D] AVERAGE BIAS DEVELOPED ACROSS A 2.2 MEGOHM GRID RESISTOR.


12EZ6
PENTODE
E_f = 12.6 Volts
E_{c2} = 12.6 Volts
PLATE MILLIAMPERES
PLATE VOLTS
3.0
2.0
1.0
0
0
5
10
15
20
-0.5
R_{g1} = 2.2 Megohms
-1.0
-1.5
-2.0
-2.5
-3.0


12EZ6
PENTODE
E_f = 14.0 Volts
E_{c2} = 14.0 Volts
PLATE MILLIAMPERES
PLATE VOLTS
3.0
2.0
1.0
0
0
5
10
15
20
-0.5
R_{g1} = 2.2 Megohms
-1.0
-1.5
-2.0
-2.5
-3.0