TUNG-SOL

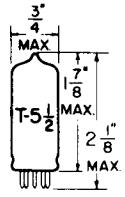
PENTODE

MINIATURE TYPE

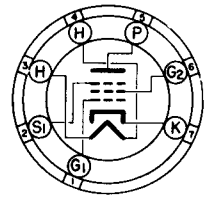
COATED UNIPOTENTIAL CATHODE

* HEATER
12.6 VOLTS 0.15 AMP.
AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE
7BK

THE 12AC6 IS A REMOTE CUT-OFF 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

	WITHOUT SHIELD	WITH SHIELD #316	
GRID TO PLATE:	0.005	0.004	μμf
INPUT:	4.3	4.3	μμf
OUTPUT:	5.0	5.0	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	20	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	10	MEGOHMS

* 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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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

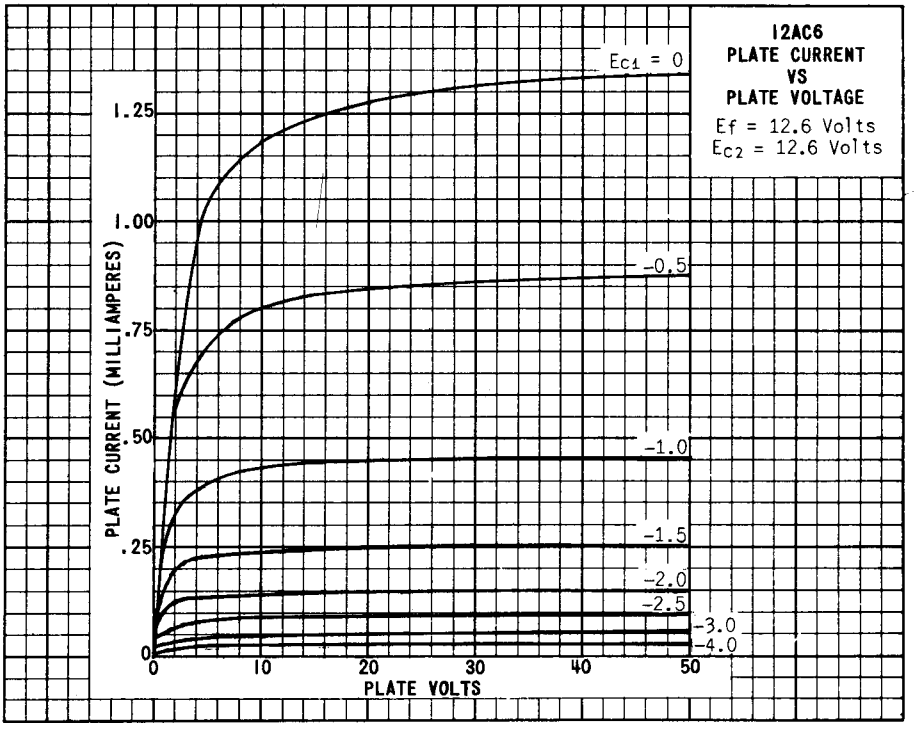
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

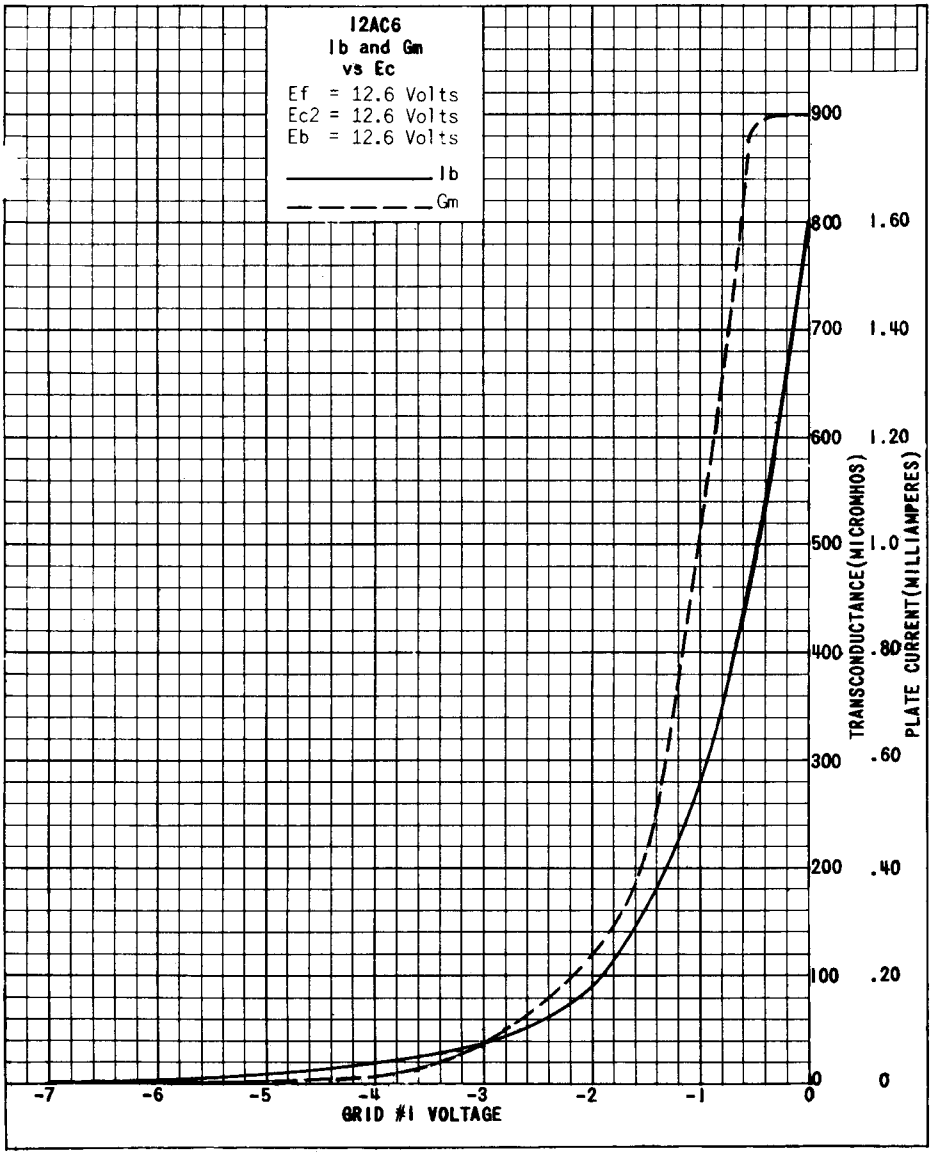
CLASS A_1 AMPLIFIER

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
PLATE VOLTAGE	12.6	VOLTS
GRID #3 VOLTAGE (CONNECTED TO CATHODE AT SOCKET)	0	VOLTS
GRID #2 VOLTAGE	12.6	VOLTS
GRID #1 VOLTAGE*	0	VOLTS
PLATE CURRENT	550	μAMPS
GRID #2 CURRENT	200	μAMPS
PLATE RESISTANCE	.5	MEGOHM
TRANSCONDUCTANCE[A]	730	μMHOS
GRID #1 VOLTAGE (APPROX.) FOR G_m[A] = 10 μMHOS E_{c3} =O	-5.2	VOLTS
GRID #3 VOLTAGE (APPROX.) FOR G_m[A] =10 μMHOS E_{c1} =O*	-3.7	VOLTS

* GRID #1 RESISTANCE = 2.2 MEGOHMS.

[A] FROM GRID #1 TO PLATE.




12AC6
Ib and Gm
vs Ec
Ef = 12.6 Volts
Ec2 = 12.6 Volts
Eb = 12.6 Volts
Ib
Gm
900
800
700
600
500
400
300
200
100
0
1.60
1.40
1.20
1.0
.80
.60
.40
.20
0
TRANSCONDUCTANCE(MICROMHOS)
PLATE CURRENT(MILLIAMPERES)
-7
-6
-5
-4
-3
-2
-1
0
GRID #1 VOLTAGE