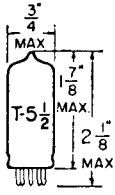
TUNG-SOL

DIODE PENTODE

MINIATURE TYPE

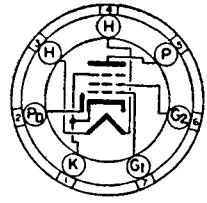


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.3 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE
7EA

THE 6CR6 IS A COMBINED SINGLE DETECTOR DIODE AND REMOTE CUT-OFF PENTODE WITH A COMMON CATHODE IN THE 7 PIN MINIATURE CONSTRUCTION. THE PENTODE SECTION IS INTENDED FOR USE AS AN AUDIO AMPLIFIER IN WHICH AVC VOLTAGE IS APPLIED TO THE CONTROL GRID FOR IMPROVED OVER-ALL RECEIVER AVC.

RATINGS

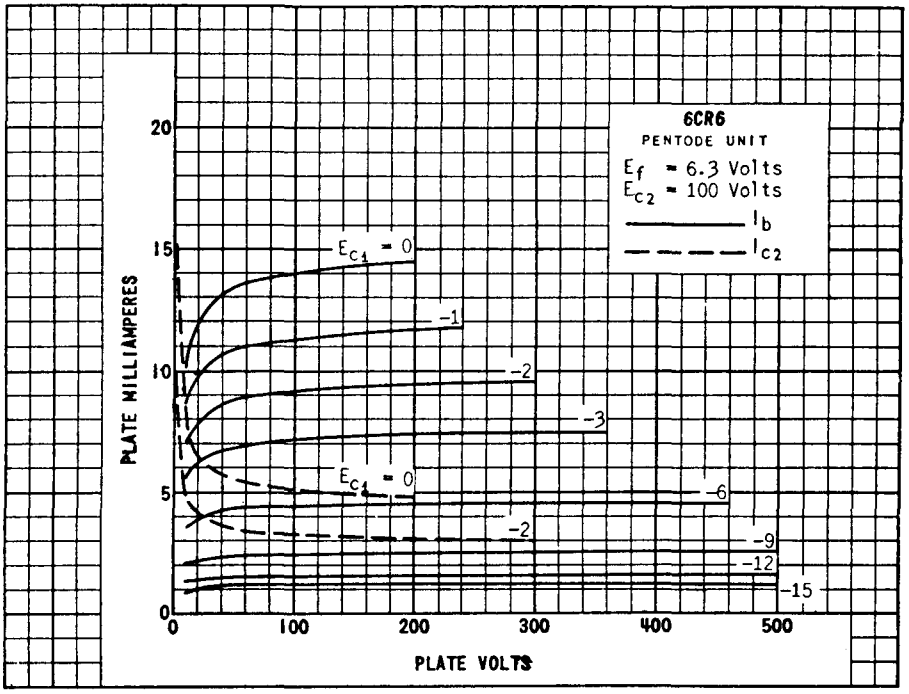
INTERPRETED ACCORDING TO RMA STANDARD M8-210

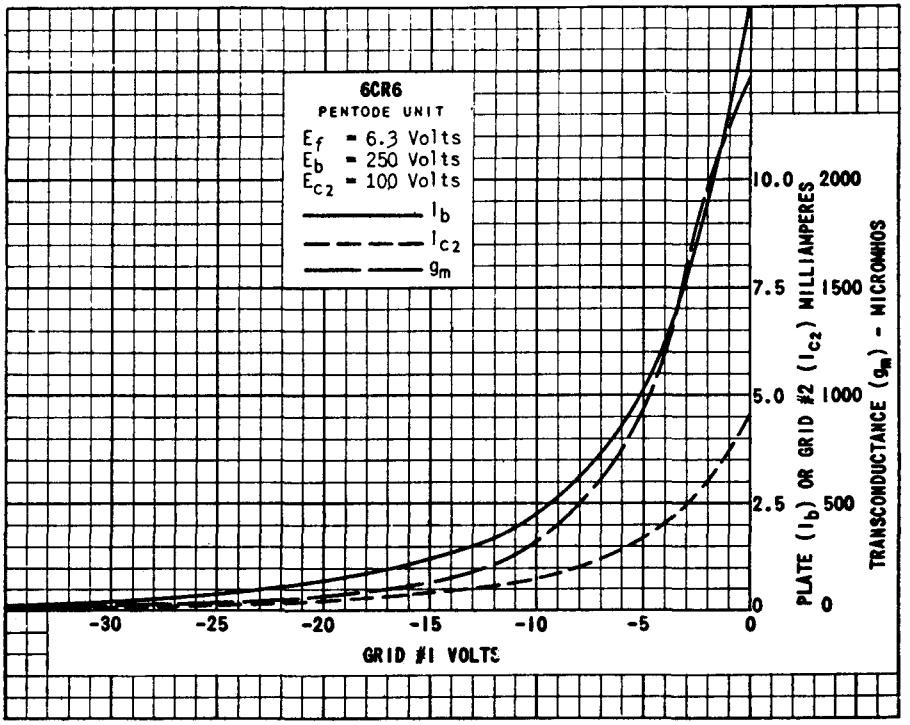
HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	100	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	150	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	WATTS
MAXIMUM GRID #2 DISSIPATION	0.3	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.0	MEGOHM
AVERAGE DIODE CURRENT WITH 10 VOLTS DC APPLIED	2.0	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.3	AMP.
PLATE VOLTAGE	250	VOLTS
GRID #2 VOLTAGE	100	VOLTS
GRID #1 VOLTAGE	−2	VOLTS
PLATE CURRENT	9.5	MA.
GRID #2 CURRENT	3.0	MA.
TRANSCONDUCTANCE	1950	μMHOS
PLATE RESISTANCE (APPROX.)	0.2	MEGOHM
GRID #1 VOLTAGE (APPROX.) FOR G_m = 10 μMHOS	−40	VOLTS

6CR6


6CR6
PENTODE UNIT
E_f = 6.3 Volts
E_{c2} = 100 Volts
I_b
I_{c2}
E_{c1} = 0
-1
-2
-3
-6
E_{c1} = 0
-2
-9
-12
-15
PLATE MILLIAMPERES
PLATE VOLTS
0
5
10
15
20
0
100
200
300
400
500


6CR6
PENTODE UNIT
E_f = 6.3 Volts
E_b = 250 Volts
E_{c2} = 100 Volts
I_b
I_{c2}
g_m
GRID #1 VOLTS
-30
-25
-20
-15
-10
-5
0
PLATE (I_b) OR GRID #2 (I_{c2}) MILLIAMPERES
TRANSCONDUCTANCE (g_m) - MICROMHOS
0
2.5
5.0
7.5
10.0
0
500
1000
1500
2000