TUNG-SOL

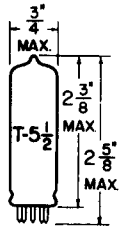
BEAM PENTODE

MINIATURE TYPE

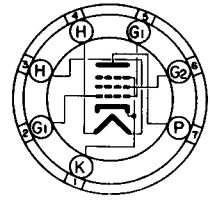
UNIPOTENTIAL CATHODE

HEATER
35±10% VOLTS 0.15 AMP.
AC OR DC

ANY MOUNTING POSITION



GLASS BUB



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

THE 35C5 IS A BEAM POWER AMPLIFIER IN THE MINIATURE CONSTRUCTION. BECAUSE OF ITS HIGH POWER SENSITIVITY AT LOW PLATE-SCREEN VOLTAGE, IT IS PARTICULARLY ADAPTABLE TO AC/DC RECEIVER APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G TO P)	0.60	μμf
GRID #1 TO CATHODE & GRID #3, GRID #2 & HEATER	12 *	μμf
PLATE TO CATHODE & GRID #3, GRID #2 & HEATER	9 *	μμf

RATINGS ←
INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

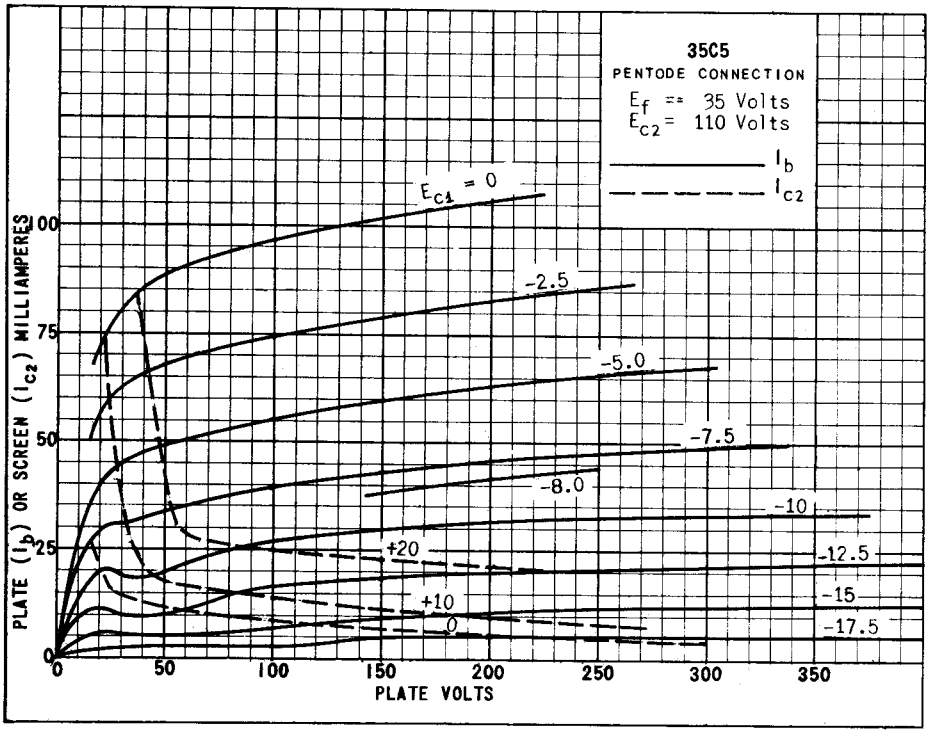
HEATER VOLTAGE	35±10%	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200[A]	VOLTS
MAXIMUM PLATE VOLTAGE	150	VOLTS
MAXIMUM GRID #2 VOLTAGE	130	VOLTS
MAXIMUM PLATE DISSIPATION	5.2	WATTS
MAXIMUM GRID #2 DISSIPATION	1.1	WATT
MAXIMUM GRID #1 CIRCUIT RESISTANCE	0.1	MEGOHM
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE)	250	°C

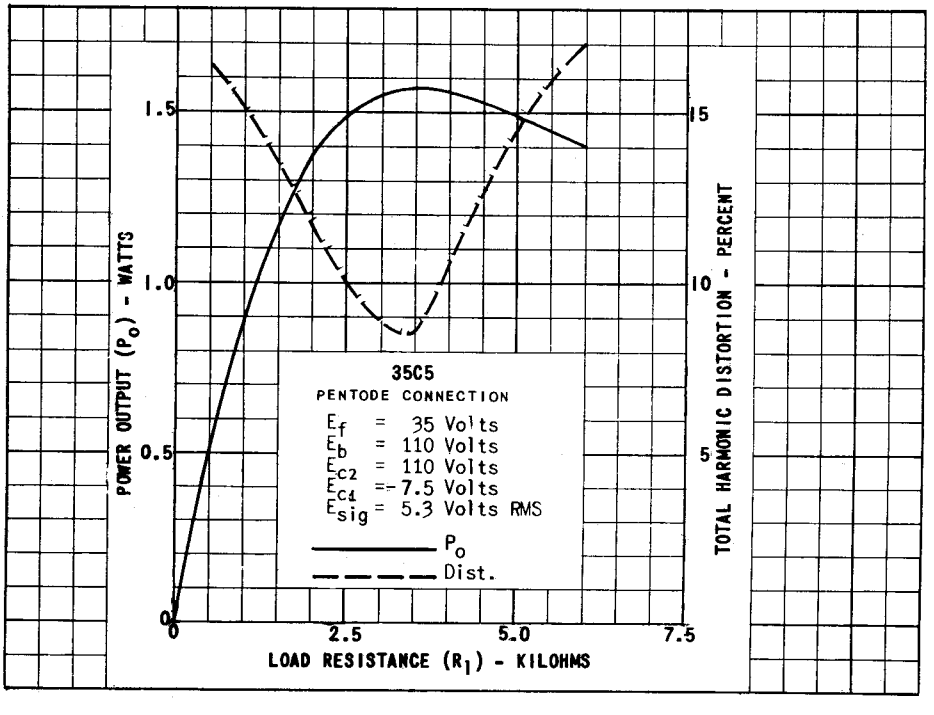
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A_1 AMPLIFIER

HEATER VOLTAGE	35±10%	VOLTS
HEATER CURRENT	0.45	AMP.
PLATE VOLTAGE	110	VOLTS
GRID #2 VOLTAGE	110	VOLTS
GRID #1 VOLTAGE	-7.5	VOLTS
PEAK AF GRID #1 VOLTAGE	7.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	40	MA.
ZERO-SIGNAL GRID #2 CURRENT (NOMINAL)	3	MA.
MAXIMUM SIGNAL PLATE CURRENT	41	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	7	MA.
TRANSCONDUCTANCE	5 800	MICROMHOS
LOAD RESISTANCE	2 500	OHMS
TOTAL HARMONIC DISTORTION	10	PERCENT
MAXIMUM SIGNAL POWER OUTPUT	1.5	WATTS

[A] DC COMPONENT MUST NOT EXCEED 100 VOLTS.

→ INDICATES A CHANGE.


35C5
PENTODE CONNECTION
E_f = 35 Volts
E_{c2} = 110 Volts
I_b
I_{c2}
E_{c1} = 0
-2.5
-5.0
-7.5
-8.0
-10
-12.5
-15
-17.5
+20
+10
0
PLATE (I_b) OR SCREEN (I_{c2}) MILLIAMPERES
PLATE VOLTS
0
50
100
150
200
250
300
350
25
50
75
100


35C5
PENTODE CONNECTION
E_f = 35 Volts
E_b = 110 Volts
E_{c2} = 110 Volts
E_{c1} = -7.5 Volts
E_{sig} = 5.3 Volts RMS
P_o
Dist.
POWER OUTPUT (P_o) - WATTS
TOTAL HARMONIC DISTORTION - PERCENT
LOAD RESISTANCE (R_l) - KILOHMS
0
0.5
1.0
1.5
5
10
15
2.5
5.0
7.5