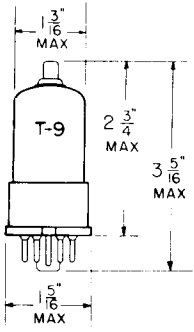
TUNG-SOL

PENTODE



GLASS BULB

COATED FILAMENT

FILAMENT
1.4 VOLTS 50 MA.
DC

ANY MOUNTING POSITION

BOTTOM VIEW
SMALL WAFER
7 PIN OCTAL
5Y

THE 1N5GT IS A FILAMENTARY TYPE SHARP CUT-OFF PENTODE VOLTAGE AMPLIFIER. IT IS DESIGNED FOR SERVICE IN LOW DRAIN BATTERY OPERATED RECEIVERS AS AN RF, IF OR AF AMPLIFIER.

DIRECT INTERELECTRODE CAPACITANCES

EXTERNAL SHIELD #308 CONNECTED TO PIN 7

GRID TO PLATE: (G_1 TO P) MAX.	0.007	μμf
INPUT: G_1 TO (F&G_3&IS+G_2+BS)	2.8	μμf
OUTPUT: P TO (F&G_3&IS+G_2+BS)	9.0 ←	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN-MAXIMUM SYSTEM

FILAMENT VOLTAGE	1.4	VOLTS
MAXIMUM PLATE VOLTAGE	110	VOLTS
MAXIMUM GRID #2 VOLTAGE	110	VOLTS
MAXIMUM CATHODE CURRENT	5.0 ←	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

FILAMENT VOLTAGE	1.4	VOLTS
FILAMENT CURRENT	50	MA.
PLATE VOLTAGE	90	VOLTS
GRID #2 VOLTAGE	90	VOLTS
GRID #1 VOLTAGE	0	VOLTS
PLATE RESISTANCE (APPROX.)	1.5	MEGOHMS
TRANSCONDUCTANCE	750	μMHOS
PLATE CURRENT	1.2	MA.
GRID #2 CURRENT	0.3	MA.
GRID #1 VOLTAGE (APPROX.) FOR g_m = 50 μMHOS	-3.2	VOLTS
GRID #1 VOLTAGE (APPROX.) FOR g_m = 5 μMHOS	-4.0 ←	VOLTS

← INDICATES A CHANGE.

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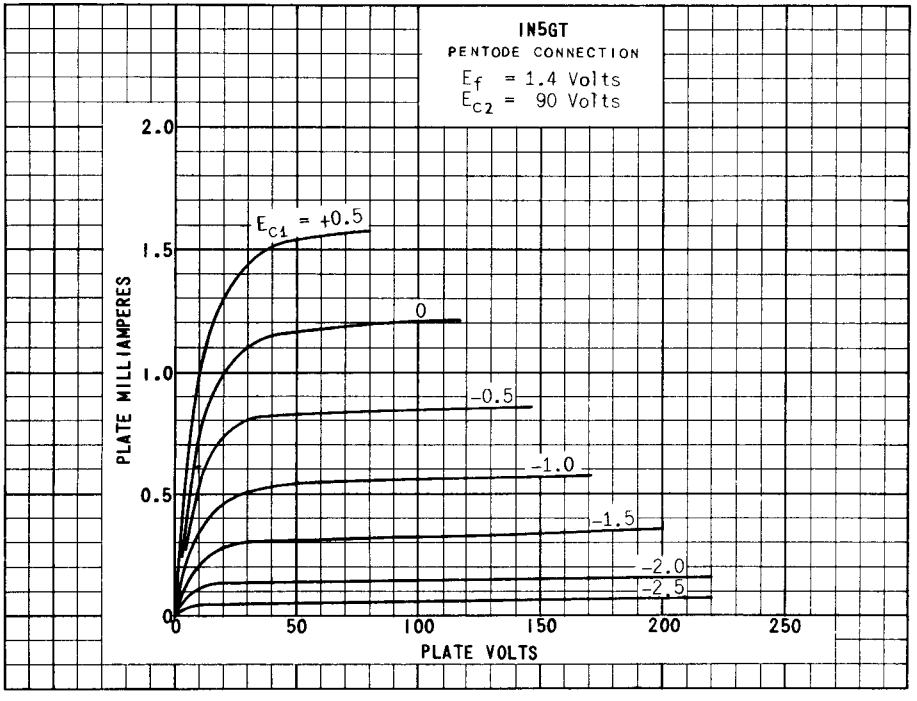
1N5GT


1N5GT
PENTODE CONNECTION
E_f = 1.4 Volts
E_{c2} = 90 Volts
PLATE MILLIAMPERES
PLATE VOLTS
E_{c1} = +0.5
0
-0.5
-1.0
-1.5
-2.0
-2.5
0
0.5
1.0
1.5
2.0
0
50
100
150
200
250