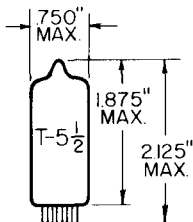


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB
MINIATURE BUTTON
7 PIN BASE ET-1
OUTLINE DRAWING
JEDEC 5-2

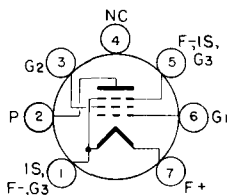
COATED FILAMENT

FILAMENT

1.4 VOLTS 50 MA.

DC

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 6AR

THE 1T4 IS A MINIATURE SUPER-CONTROL RF PENTODE. IT IS RECOMMENDED FOR USE IN COMPACT, LIGHT-WEIGHT, PORTABLE RECEIVERS WHERE AVC IS REQUIRED. THE 1T4 FEATURES ADEQUATE INTERNAL SHIELDING FOR MOST PURPOSES, BUT EXTERNAL SHIELDING IS RECOMMENDED WHERE MINIMUM GRID-PLATE CAPACITANCE IS TO BE OBTAINED.

DIRECT INTERELECTRODE CAPACITANCES

WITH OR WITHOUT EXTERNAL SHIELD #316 CONNECTED TO PIN #1

GRID TO PLATE: (G_1 TO P) MAX.

0.01 pf

INPUT: G_1 TO (F & G_3 & G_2)

3.6 pf

OUTPUT: P TO (F & G_3 & G_2)

7.5 pf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

MAXIMUM PLATE VOLTAGE
MAXIMUM GRID #2 VOLTAGE
MAXIMUM POSITIVE DC GRID #1 VOLTAGE
MAXIMUM CATHODE CURRENT

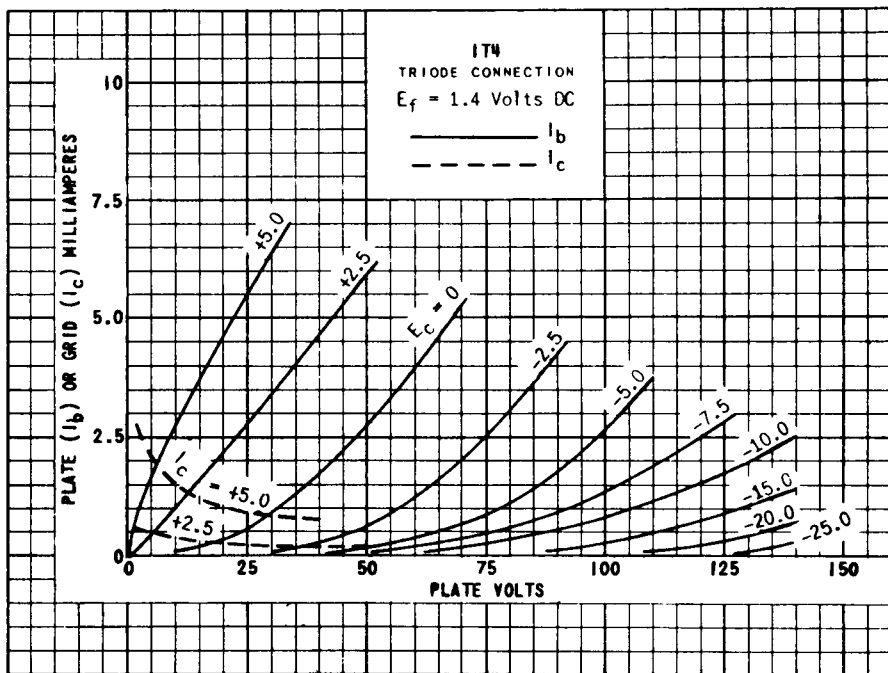
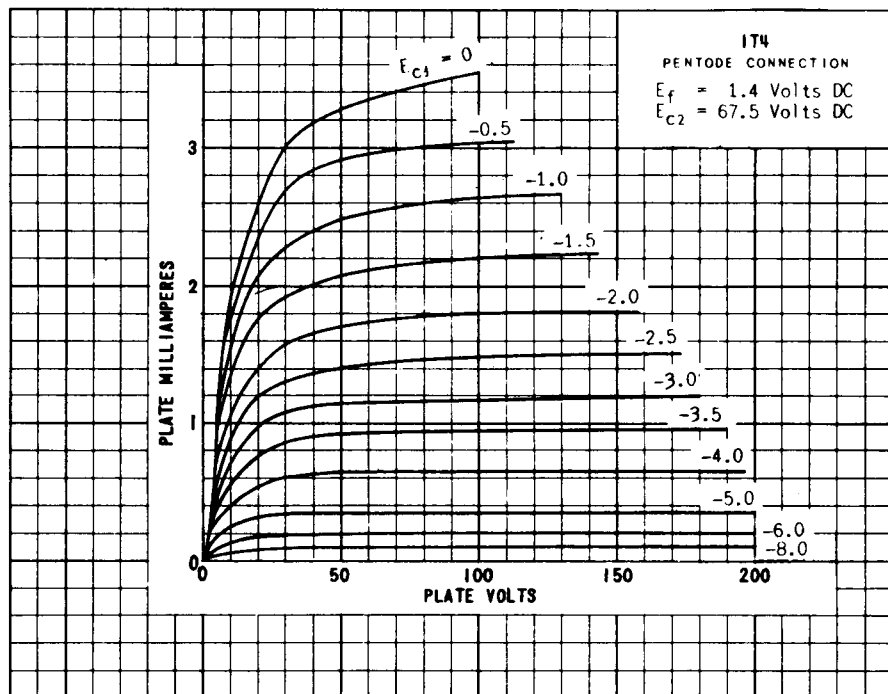
90 VOLTS
→ 90 VOLTS
0 VOLTS
5.5 MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

PLATE VOLTAGE	45	67.5	90	90	VOLTS
GRID #2 VOLTAGE	45	67.5	45	67.5	VOLTS
GRID #1 VOLTAGE	0	0	0	0	VOLTS
PLATE RESISTANCE (APPROX.)	0.35	0.25	0.8	0.5	MEGOHM
TRANSCONDUCTANCE	700	875	750	900	μMHOS
PLATE CURRENT	1.7	3.4	1.8	3.5	MA.
GRID #2 CURRENT	0.7	1.5	0.65	1.4	MA.
GRID #1 VOLTAGE FOR $g_m = 10 \mu\text{MHOS}$	-10	-16	-10	-16	VOLTS

→ INDICATES A CHANGL.



1T4
PENTODE CONNECTION

$E_f = 1.4$ Volts DC

$E_b = 90$ Volts

$I_{c2} = 67.5$ Volts

— I_b
- - - I_{c2}
- - - g_m

