

TUNG-SOL

PENTODE

MINIATURE TYPE

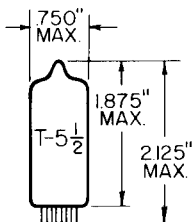
COATED FILAMENT

FILAMENT

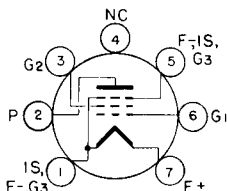
1.4 VOLTS 50 MA.

DC

ANY MOUNTING POSITION



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2



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

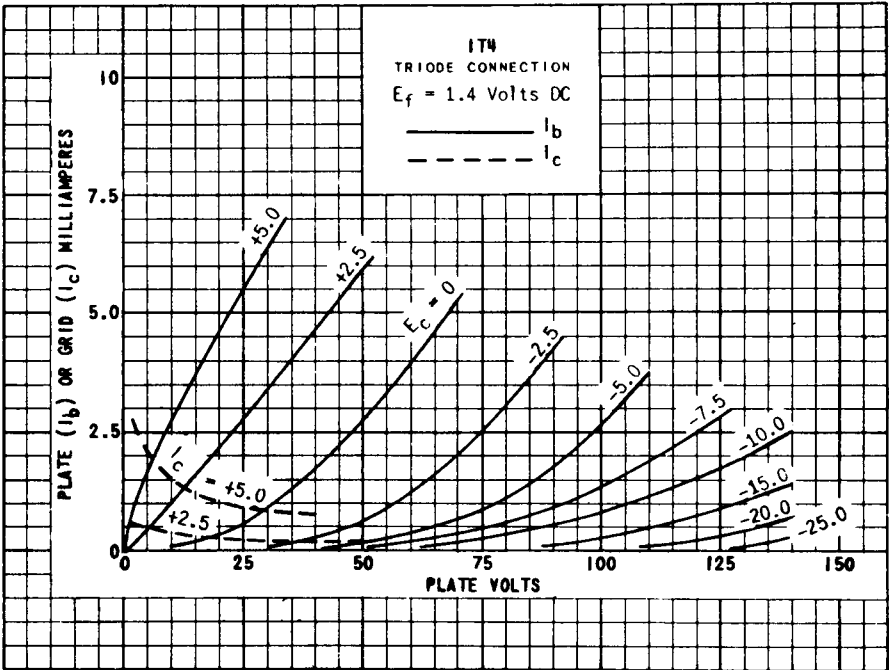
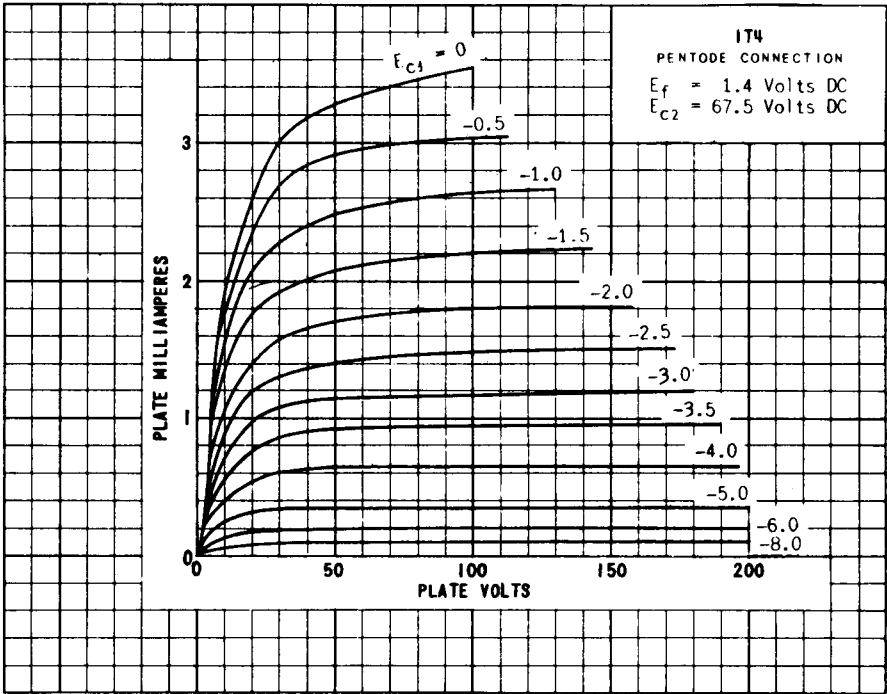
MAXIMUM PLATE VOLTAGE	90	VOLTS
MAXIMUM GRID #2 VOLTAGE	→ 90	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM CATHODE CURRENT	5.5	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

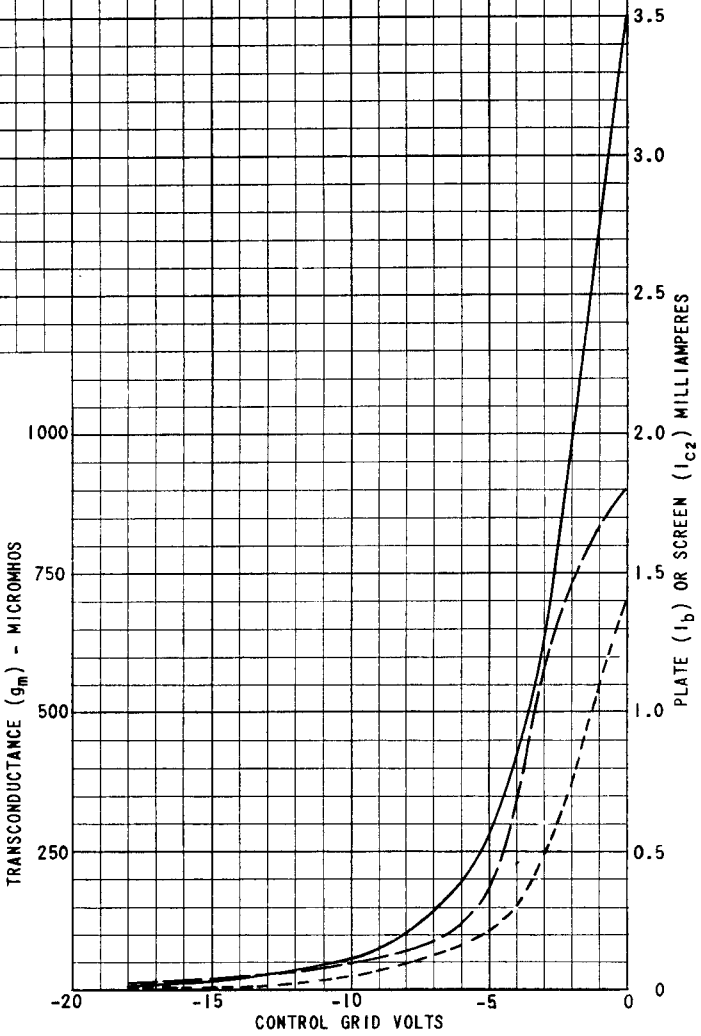
PLATE VOLTAGE	45	67.5	90	90	VOLTS
GRID #2 VOLTAGE	45	67.5	45	67.5	VOLTS
GRID #1 VOLTAGE	0	0	0	0	VOLTS
PLATE RESISTANCE (APPROX.)	0.35	0.25	0.8	0.5	MEG OHM
TRANSCONDUCTANCE	700	875	750	900	μMHOS
PLATE CURRENT	1.7	3.4	1.8	3.5	MA.
GRID #2 CURRENT	0.7	1.5	0.65	1.4	MA.
GRID #1 VOLTAGE FOR g _m = 10 μMHOS	-10	-16	-10	-16	VOLTS

→ INDICATES A CHANGE.



IT4
 PENTODE CONNECTION
 $E_f = 1.4$ Volts DC
 $E_b = 90$ Volts
 $I_{c2} = 67.5$ Volts

————— I_b
 - - - - - I_{c2}
 - - - - - g_m



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PLATE
 1906
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 1947