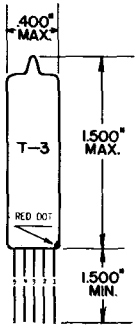
TUNG-SOL

TRIODE

SUBMINIATURE TYPE

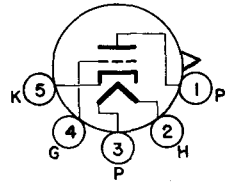


GLASS BULB
COLOR DOT IS ADJACENT TO LEAD 1
IN-LINE LEADS

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 200 MA.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
0.016" TINNED FLEXIBLE LEADS
0.048" SPACING CENTER-TO-CENTER

THE 5744 IS A HIGH-MU TRIODE, SUITABLE FOR SERVICE AS A HIGH FREQUENCY CONVERTER OR OSCILLATOR UP TO SEVERAL HUNDRED MEGACYCLES. IT IS ALSO USEFUL IN GENERAL PURPOSE AUDIO FREQUENCY VOLTAGE AMPLIFIER SERVICE. THE FLEXIBLE TERMINAL LEADS MAY BE SOLDERED OR WELDED DIRECTLY TO CIRCUIT COMPONENTS WITHOUT THE USE OF SOCKETS. STANDARD SUBMINIATURE SOCKETS MAY BE USED BY CUTTING THE LEADS TO 0.20" LENGTH.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD[A]	WITHOUT SHIELD	
GRID TO PLATE	0.80	0.83	pf
GRID TO CATHODE	2.7	2.6	pf
PLATE TO CATHODE	2.4	0.90	pf

[A] WITH A CYLINDRICAL SHIELD (0.40" I.D. - 1 7/8" LONG) CONNECTED TO LEAD 5.

RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

MAXIMUM PLATE VOLTAGE	250	VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

PLATE VOLTAGE	250	VOLTS
CATHODE BIAS RESISTANCE	500	OHMS
PLATE RESISTANCE	17500	OHMS
AMPLIFICATION FACTOR	70	
TRANSCONDUCTANCE	4 000	µMHOS
PLATE CURRENT	4	MA.

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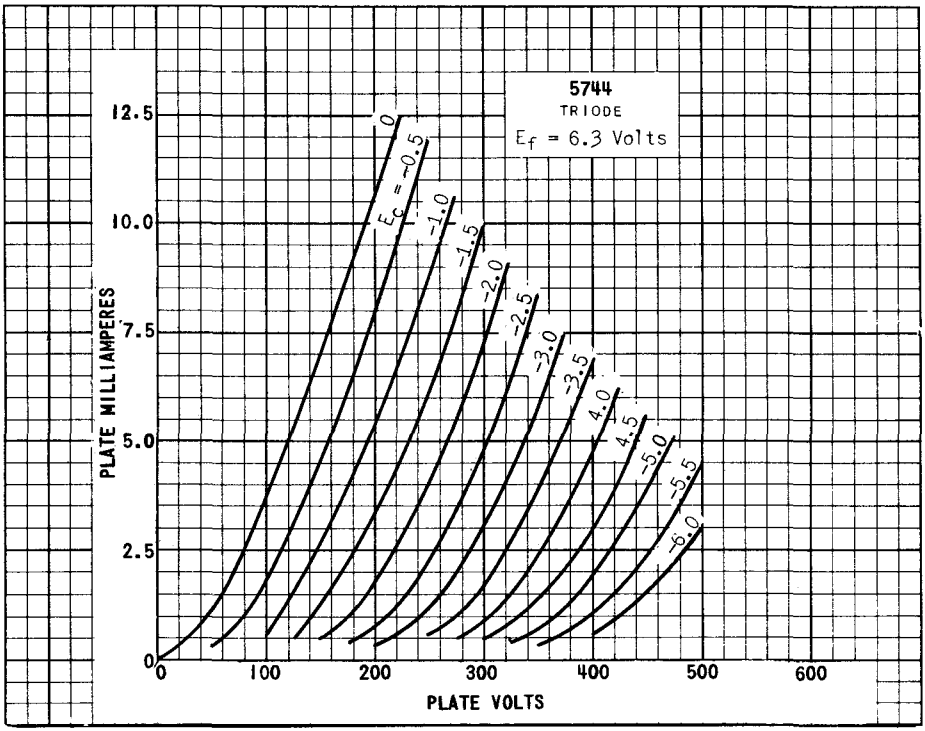
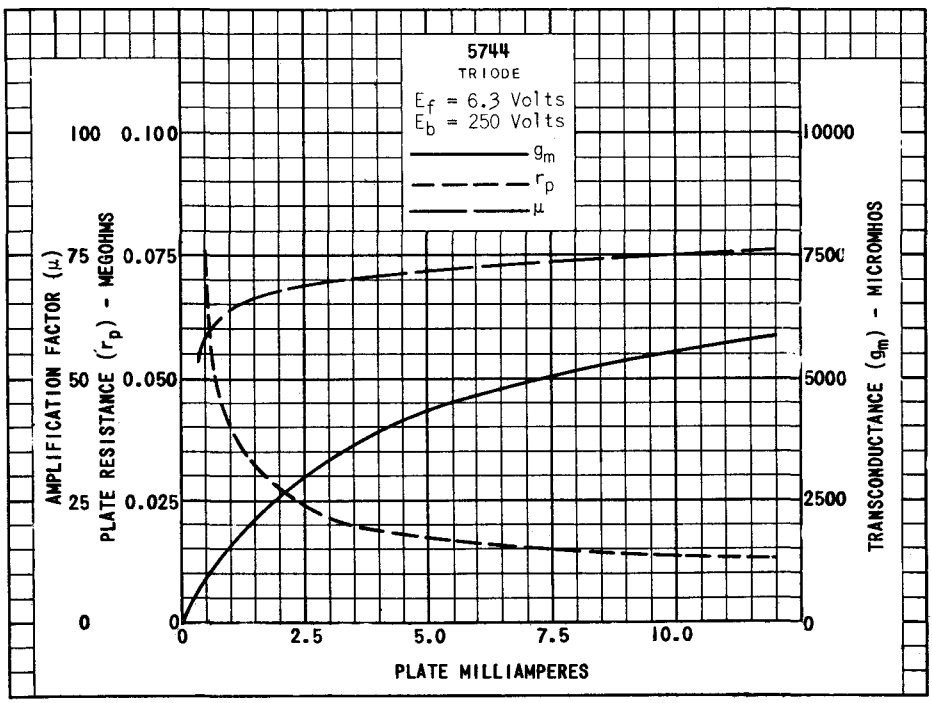

5744
TRIODE
Ef = 6.3 Volts
Ec = 0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
-4.5
-5.0
-5.5
-6.0
PLATE MILLIAMPERES
12.5
10.0
7.5
5.0
2.5
0
0
100
200
300
400
500
600
PLATE VOLTS


5744
TRIODE
Ef = 6.3 Volts
Eb = 250 Volts
gm
rp
μ
AMPLIFICATION FACTOR (μ)
PLATE RESISTANCE (rp) - MEGOHMS
TRANSCONDUCTANCE (gm) - MICROMHOS
100
75
50
25
0
0.100
0.075
0.050
0.025
0
10000
7500
5000
2500
0
0
2.5
5.0
7.5
10.0
PLATE MILLIAMPERES