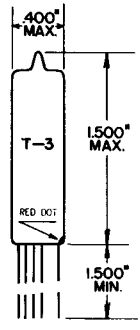
TUNG-SOL

THIS DATA SHEET ALSO APPLIES TO TWO OTHER MILITARY VERSIONS, DESIGNATED 5703WA AND 5703WB

TRIODE
SUBMINIATURE TYPE

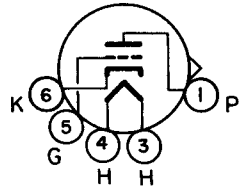
FOR UHF OSCILLATOR APPLICATIONS

ANY MOUNTING POSITION



GLASS BULB

DOT IS ADJACENT TO LEAD 1..



BOTTOM VIEW

0.016" TINNED FLEXIBLE LEADS
0.048" CENTER-TO-CENTER EXCEPT LEADS 1 - 3 = 0.096" CENTER-TO-CENTER
IN-LINE

THE 5703 IS A HEATER-CATHODE TYPE MEDIUM-MU SUBMINIATURE TRIODE CAPABLE OF OPERATION AS AN OSCILLATOR, CLASS C AMPLIFIER, OR FREQUENCY MULTIPLIER IN THE UHF REGION. THE FLEXIBLE TERMINAL LEADS MAY BE SOLDERED OR WELDED TO CIRCUIT COMPONENTS WITHOUT THE USE OF SOCKETS. STANDARD SUBMINIATURE SOCKETS MAY BE USED BY CUTTING THE LEADS TO A SUITABLE LENGTH.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT SHIELD

GRID TO PLATE	1.2	pf
INPUT	2.6	pf
OUTPUT	0.7	pf

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	200	MA.
HEATER SUPPLY LIMITS: VOLTAGE OPERATION			6.3 ± 0.6	VOLTS
MAXIMUM HEATER CATHODE VOLTAGE			±100	VOLTS

MAXIMUM RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	275	VOLTS
PLATE DISSIPATION	3.3	WATTS
PLATE CURRENT	22	MA.
GRID CURRENT	5.5	MA.
ALTITUDE	10,000	FEET
ENVELOPE TEMPERATURE	220	°C

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TUNG-SOL

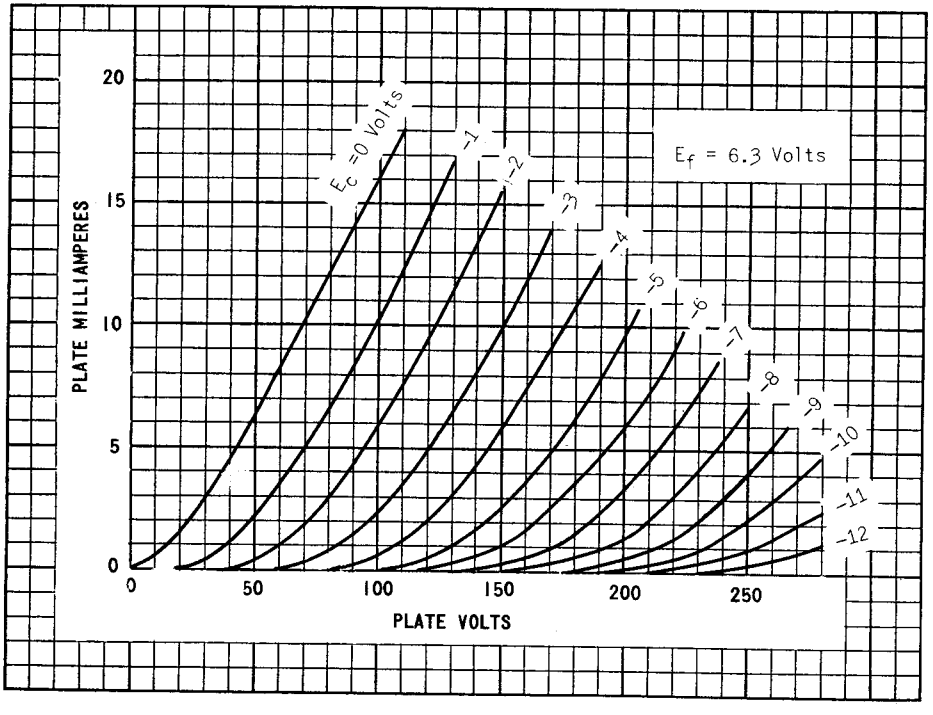
CONTINUED FROM PRECEDING PAGE

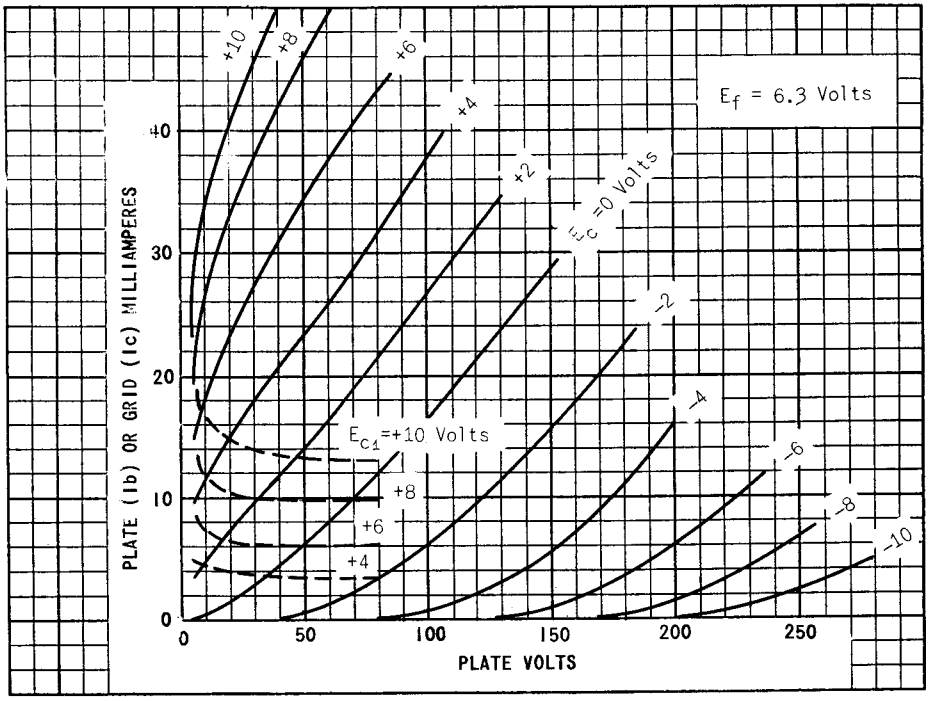
TYPICAL OPERATING CHARACTERISTICS

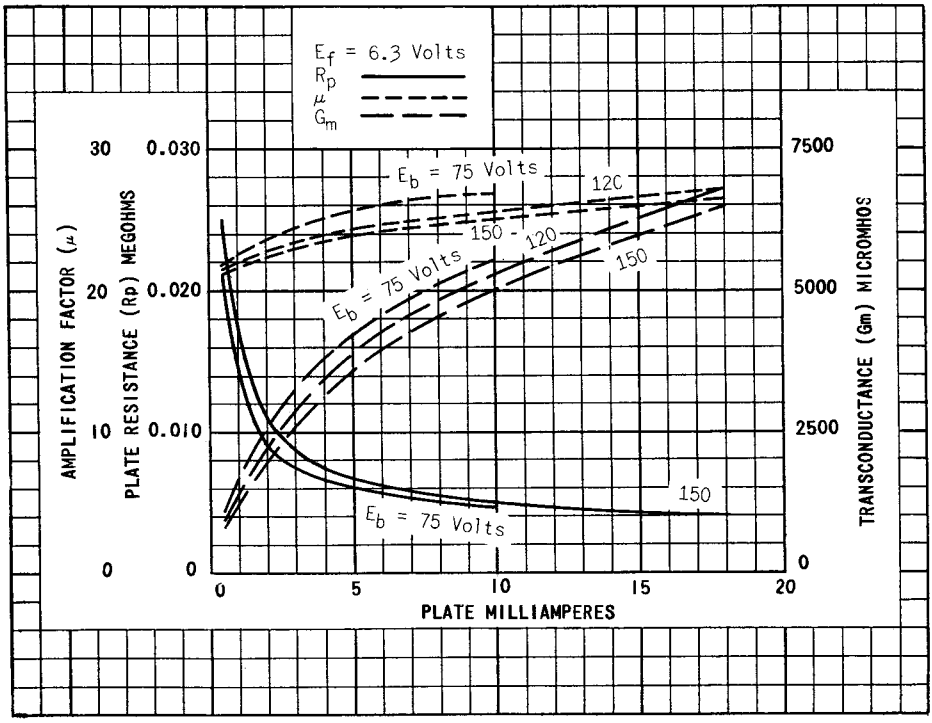
DC PLATE VOLTAGE	120	VOLTS
DC GRID VOLTAGE	0	VOLTS
CATHODE BIAS RESISTANCE	220	OHMS
PLATE CURRENT	9.6	MA.
TRANSCONDUCTANCE	5000	μMHOS
AMPLIFICATION FACTOR	25.5	

SPECIAL TESTS AND RATINGS

OPERATION PEAK OUTPUT (AC MIN.) Ebb = 105 Vdc; Ef = 5.2 Vac; Eg = 19.5 Vac; RL = 750; Rg = 2700; CIRCUIT DRAWING - SEE FIGURE 1	45	VOLTS
POWER OSCILLATION (MIN.) Ebb = 91 Vdc; Ef = 5.6 Vac; Tg = 2400; F = 400 Mc TEST PER 185 JAN DRAWING OR EQUIVALENT	180	MW







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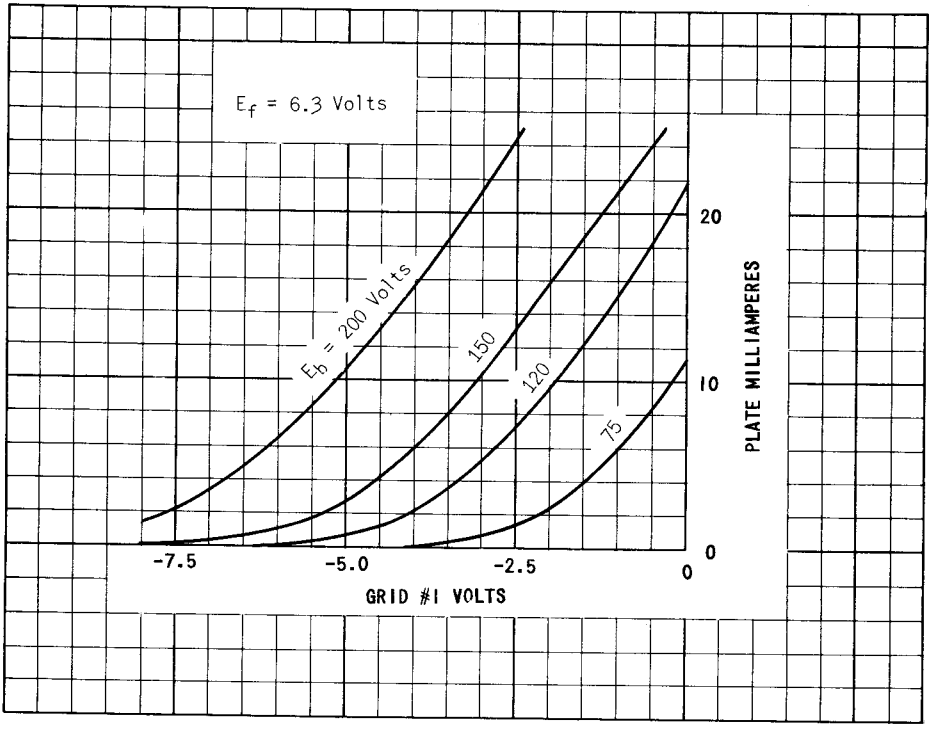
E_f = 6.3 Volts
E_b = 200 Volts
150
120
75
20
10
0
PLATE MILLIAMPERES
-7.5
-5.0
-2.5
0
GRID #1 VOLTS

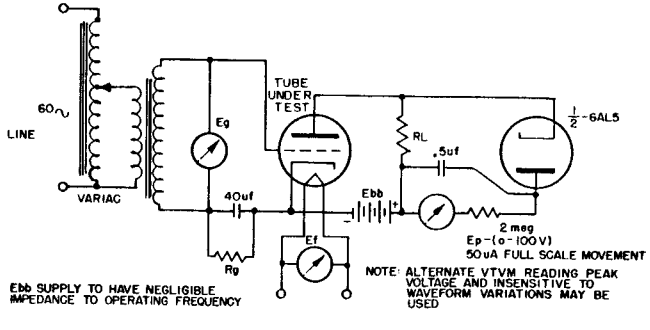
60~
LINE
VARIAC
Eg
TUBE UNDER TEST
40uf
Rg
Ef
Ebb
RL
.5uf
1/2-6AL5
2 meg
Ep-(o-100V)
50uA FULL SCALE MOVEMENT
Ebb SUPPLY TO HAVE NEGLIGIBLE IMPEDANCE TO OPERATING FREQUENCY
NOTE: ALTERNATE VTVM READING PEAK VOLTAGE AND INSENSITIVE TO WAVEFORM VARIATIONS MAY BE USED

FIG. 1