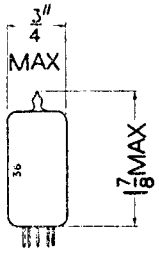
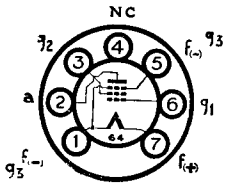
Current Equipment Type



TYPE 1L4
MINIATURE BATTERY
R.F. PENTODE



BRIMAR type 1L4 may be used as R.F. or I.F. amplifier in stages where A.V.C. is not applied. It is also suitable for R.C. coupled A.F. amplifier operation.

RATINGS

Filament Voltage	1.4 volts
Filament Current	0.05 amp
Anode Voltage	110 volts max.
Screen (g_2) Voltage	90 volts max.
Cathode Current	6.5 mA max.

CHARACTERISTICS

Anode Voltage	90	90	volts
Anode Current	2.9	4.5	mA
Screen Voltage	67.5	90	volts
Screen Current	1.2	2.0	mA
Control Grid (g_1) Voltage	0	0	volts*
Mutual Conductance	0.93	1.03	mA/V
Anode Impedance	0.6	0.35	meg.
Control Grid Voltage (For Anode current of 0.01 mA)	—6	—8	volts

RESISTANCE COUPLED OPERATION

Anode and Screen Supply Voltages	45	67.5	90	volts
Anode Load Resistor	0.5	0.5	1.0	meg.
Screen Series Resistor	0.66	1.5	2.0	meg.
Control Grid Resistor	1.0	1.0	1.0	meg.*
Peak Output	17	30	35	volts
Voltage Gain	30	45	55	—

(For 6 volts peak output, distortion 2%)

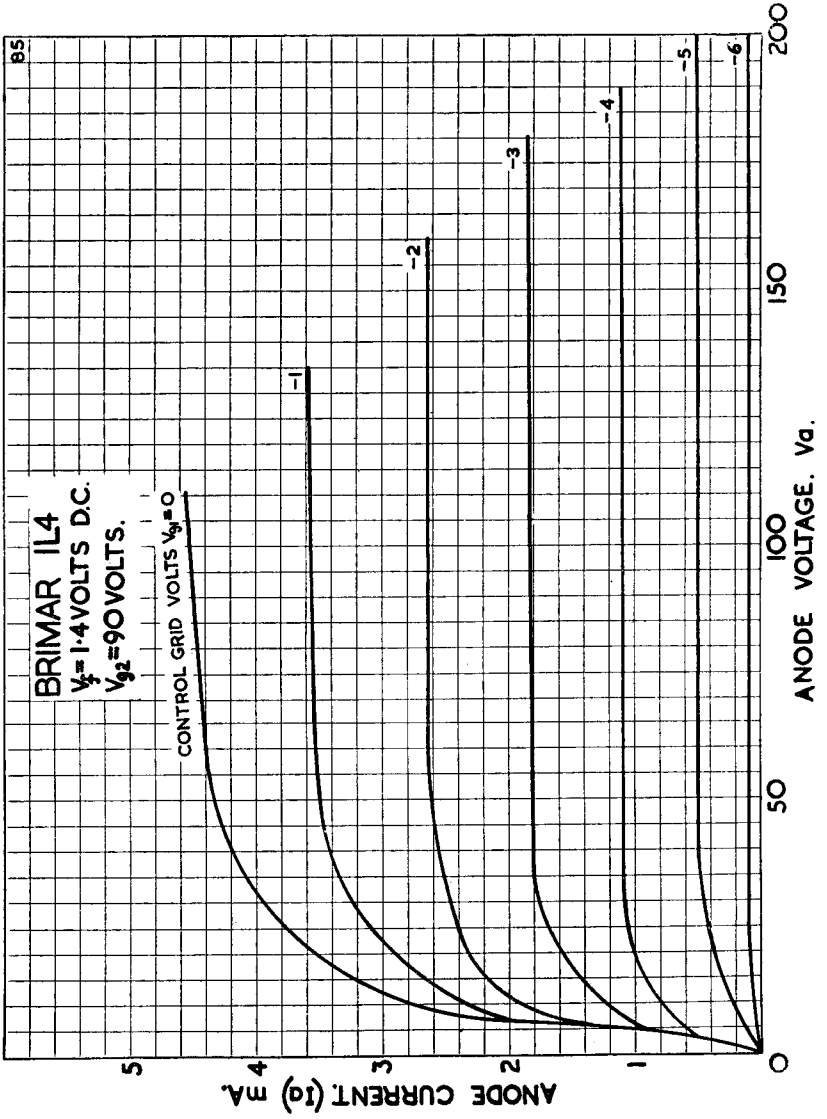
**The Grid return should be made to negative filament (pin 1) via a resistance of at least 0.5 meg. to minimize variations due to contact potential.*

INTER-ELECTRODE CAPACITANCES †

Input	3.6 pF
Output	7.5 pF
Control Grid to Anode	0.008 pF max.

† *With no external shield.*

Type 1L4 *is a commercial equivalent to the* CV1758


B5
BRIMAR IL4
V_f= 1·4 VOLTS D.C.
V_{g2}=90 VOLTS.
CONTROL GRID VOLTS V_{g1}=0
-1
-2
-3
-4
-5
-6
ANODE CURRENT (Ia) mA.
0
1
2
3
4
5
50
100
150
200
ANODE VOLTAGE. Va.