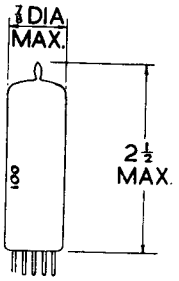
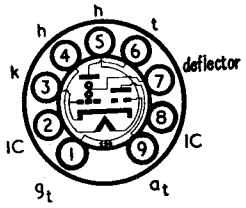
Current Equipment Type



TYPE **EM840**
MINIATURE TUNING INDICATOR



The BRIMAR EM840 is a noval based tuning indicator with the luminous target deposited on the glass itself in the form of a vertical strip. Each end of this strip is luminous and on the application of a control voltage, the luminous areas extend inwards to the centre from the ends.

RATINGS

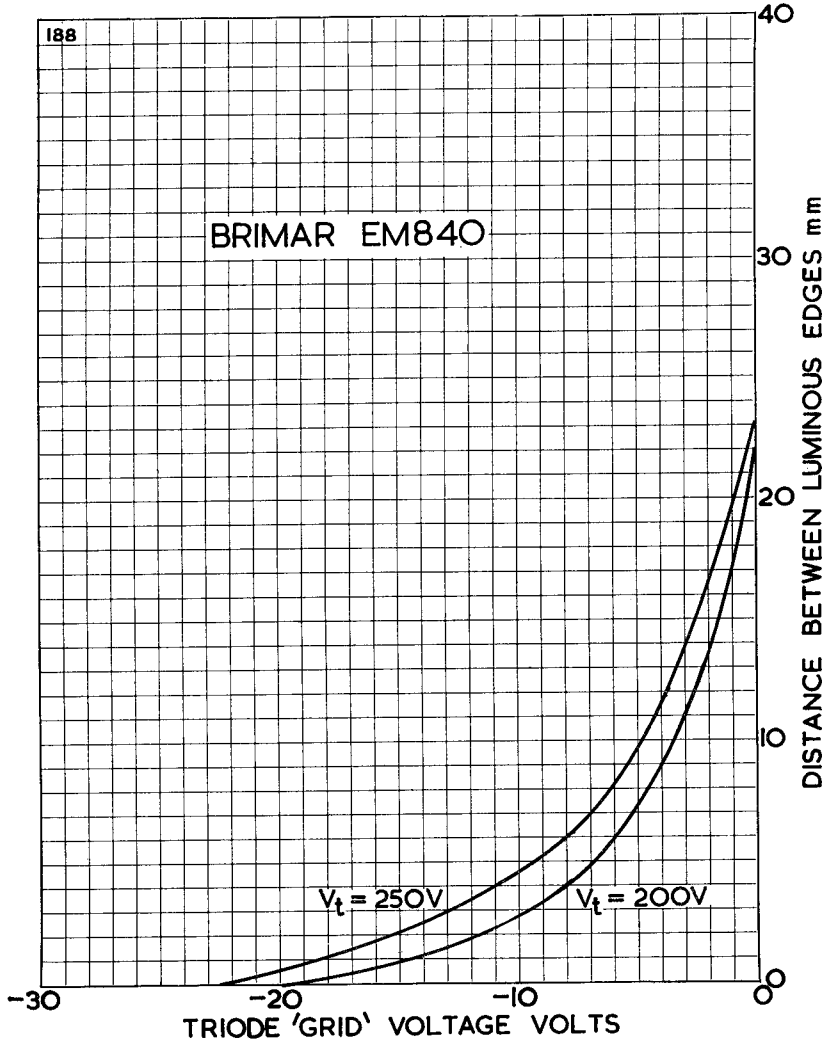
Heater Voltage	6.3 volts
Heater Current	0.25 amp.
Anode Voltage	300 volts max.
Anode Supply Voltage	550 volts max.
Anode Dissipation	0.5 watt max.
Target Voltage	300 volts max.
Target Voltage	150 volts min.
Target Supply Voltage	550 volts max.
Cathode Current	3.0 mA max.
Heater-Cathode Voltage	100 volts max.
Triode Grid Resistance	3.0 megohms max.
Bulb temperature of luminous area	150° C. max.

OPERATING CHARACTERISTICS

Target Voltage		250 volts
Anode Supply Voltage		250 volts
Anode Resistor		470 kΩ
Triode Grid Voltage	0	—22 volts
Anode Current	0.45	0 mA
Target Current	0.7	1 mA
Length of Shadow	$\frac{13}{16}$	0 inch

NOTE. The deflectors should be connected to the triode anode for normal use.

The indicator has a vari-μ characteristic and is, therefore, sensitive to weak signals, a change in shadow length of approximately $\frac{1}{4}$ inch long is produced by changing the control voltage from 0 to —2 volts.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BRIMAR EM840
40
30
20
10
0
DISTANCE BETWEEN LUMINOUS EDGES mm
V_t = 250V
V_t = 200V
-30
-20
-10
0
TRIODE 'GRID' VOLTAGE VOLTS