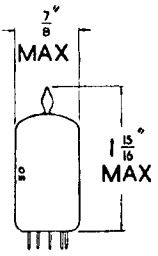
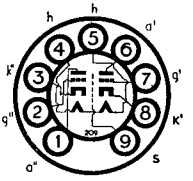


Current Equipment Type

TYPE **ECC85**
MINIATURE
HIGH SLOPE
DOUBLE TRIODE



BRIMAR type ECC85 is a Noval based double triode intended primarily as an R.F. amplifier and frequency changer in F.M. receivers.

RATINGS

Heater Voltage	6.3 volts
Heater Current	0.435 amp.
Anode Voltage ($I_a = 0$)	550 volts abs. max.
Anode Voltage	300 volts abs. max.
Anode Dissipation	2.5 watts abs. max.
Anode Dissipation ($p_a' + p_a''$)	4.5 watts abs. max.
Cathode Current	15 mA abs. max.
Grid Voltage	—100 volts abs. max.
Grid Resistance	1 MΩ abs. max.
Heater-Cathode Voltage	90 volts abs. max.
Heater-Cathode Resistance	22 kΩ abs. max.

OPERATING CHARACTERISTICS AS R.F. AMPLIFIER

Anode Supply Voltage	250 volts
Anode Resistor	1.8 kΩ
Anode Voltage	230 volts
Grid Voltage	—2 volts
Bias Resistor	200 Ω
Anode Current	10 mA
Mutual Conductance	6 mA/V
Anode Impedance	9.7 kΩ
Input Impedance at 100 Mc/s	6 kΩ
Equivalent Noise Resistance	500 Ω

OPERATING CONDITIONS AS SELF-OSCILLATING MIXER

Anode Supply Voltage	250 volts
Anode Resistor	12 kΩ
Grid Resistor	1 MΩ
Oscillatory Voltage	3 volts r.m.s.
Anode Current	5.2 mA
Conversion Conductance	2.3 mA/V
Anode Impedance	22 kΩ
Input Impedance at 100 Mc/s	15 kΩ

INTER-ELECTRODE CAPACITANCES

Anode to Grid (each section)	1.5 pF
Anode to Cathode (each section)	0.18 pF
Anode to Anode	0.04 pF max.
Grid to Grid	0.003 pF max.
Input (each section)	3 pF
Output (each section)	1.2 pF
Output (with external shield)	1.9 pF