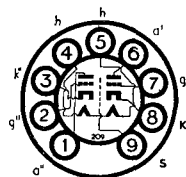


Current Equipment Type
TYPE ECC85
MINIATURE
HIGH SLOPE
DOUBLE TRIODE



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 M Ω abs. max.
Heater-Cathode Voltage	...	...	...	...	90 volts abs. max.
Heater-Cathode Resistance	...	...	...	...	22 k Ω abs. max.

OPERATING CHARACTERISTICS AS R.F. AMPLIFIER

Anode Supply Voltage	...	...	...	...	250 volts
Anode Resistor	...	...	...	...	1.8 k Ω
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 k Ω
Input Impedance at 100 Mc/s	...	...	...	...	6 k Ω
Equivalent Noise Resistance	...	...	...	...	500 Ω

OPERATING CONDITIONS AS SELF-OSCILLATING MIXER

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

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