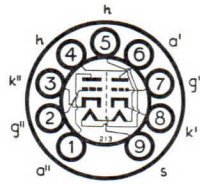


TYPE E88CC LONG LIFE MINIATURE DOUBLE TRIODE



The BRIMAR E88CC is a miniature double triode featuring a high mutual conductance and low drift of characteristics over long periods of operation.

RATINGS

Heater Voltage	...	6.3	volts
Heater Current	...	0.3	amp.
Max. Anode Voltage ($I_a = 0$)	...	400	volts
Max. Anode Voltage ($P_a = 1.5$ W)	...	220	volts
Max. Anode Dissipation (each section)	...	1.5	watts
Max. Total Anode Dissipation	...	3.0	watts
Max. Grid Dissipation	...	30	milliwatts
Max. Grid Circuit Resistance	...	1.0	MΩ
Max. Negative Anode Voltage	...	100	volts
*Max. Peak Negative Grid Voltage	...	200	volts
Max. Cathode Current	...	20	mA
*Max. Peak Cathode Current	...	100	mA
Max. Heater-Cathode Voltage ($k + ve$)	...	120	volts
Max. Heater-Cathode Voltage ($k - ve$)	...	60	volts
Max. Bulb Temperature	...	170	°C

*Max. duty cycle = 10%; max. pulse duration 200μ secs.

OPERATING CHARACTERISTICS

$V_h = 6.3$ V, $V_a(b) = 100$ V, $V_g = +9$ V, $R_k = 680$ ohms, $C_k = 1,000$ μF

	Min.	Bogey	Max.	
Anode Current	14.2	15.0	15.8	mA
Mutual Conductance	10.5	12.5	15	mA/V
Amplification Factor	...	33	...	
Anode Impedance	...	2.65	...	kΩ

COMPUTER OPERATION

Anode Supply Voltage	...	150	volts
Anode Load Resistor	...	2.5	kΩ
Grid Supply Voltage	...	150	volts
Grid Resistor	...	300	kΩ
*Anode Current	...	33 ± 5	mA
Grid Voltage for $I_a = 100$ μA	...	-7.0 ± 1.5	V
Difference in cut-off voltage (between sections)	...	<2	volts

* This condition is not suitable for continuous operation as the cathode current rating is exceeded.

INTER-ELECTRODE CAPACITANCES*

$C_{a' - g'}$	...	1.4 ± 0.2	pF
$C_{a' - k'}$	...	0.18 ± 0.05	pF
$C_{a' - s}$	...	1.3 ± 0.2	pF
$C_{g' - k' + h}$; $C_{g'' - k'' + h}$	...	3.3 ± 0.6	pF
$C_{a' - k' + h + s}$	...	1.75 ± 0.2	pF
$C_{a' - k'' + h + s}$	...	1.65 ± 0.2	pF
$C_{k' - h}$	...	2.6	pF
$C_{k'' - h}$	...	2.7	pF

*With external shield

