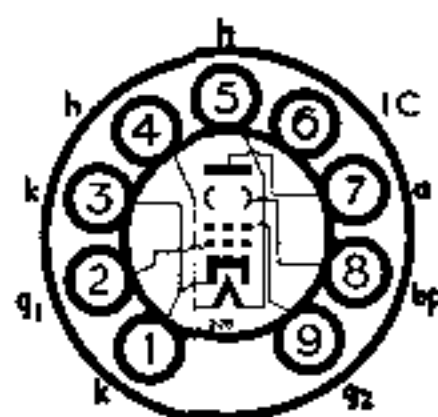


TYPE 6688
LONG LIFE
MINIATURE BEAM
TETRODE
WIDE BAND AMPLIFIER



The BRIMAR 6688 is an indirectly heated beam tetrode developed for general purpose wide-band applications. It has a high mutual conductance, and a high ratio of mutual conductance to capacitance.

RATINGS

Heater Voltage	6.3	volts
Heater Current	0.3	amp.
Anode Voltage	190	volts max.
Anode Voltage ($I_a = 0$)	360	volts max.
Anode Dissipation	2.7	watts max.
Screen Voltage	160	volts max.
Screen Voltage ($I_{g_2} = 0$)	360	volts max.
Screen Dissipation	0.8	watts max.
Positive Control Grid Voltage	0	volts max.
Negative Control Grid Voltage	50	volts max.
Negative Peak Control Grid Voltage	100	volts max.
Cathode Current	23	mA max.
Control Grid Circuit Resistance (with fixed bias)	0.25	MΩ max.
Control Grid Circuit Resistance (with auto bias)	0.5	MΩ max.
Heater Cathode Potential	55	volts max.
Hot Spot Bulb Temperature	140	°C max.

CHARACTERISTICS

$V_h = 6.3$, $V_a = 190$, $V_{g_2} = 160$, $V_{g_1} = +9$, $R_k = 630$ ohms, $C_k = 2,000$ μF

	Min.	Bogey	Max.	
Anode Current	12.2	13.0	13.8	mA
Screen Current	2.9	3.3	3.7	mA
Mutual Conductance	14.2	16.5	18.8	mA/V
Inner Amplification Factor ($\mu_{g_1 - g_2}$)	40	50	60	
Anode Impedance		90		kΩ
Equivalent Noise Resistance		460		ohms

INTER-ELECTRODE CAPACITANCES*

Control Grid to all	7.5	pF
Anode to all	3.0	pF
Anode to Control Grid	0.018	pF
Control Grid to all ($I_k = 16.3$ mA)	11.1	pF

* Measured with external shield.