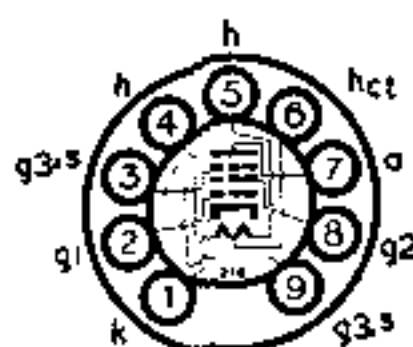


TYPE 6870
TRUSTWORTHY
MINIATURE
R.F. AND VIDEO PENTODE



The BRIMAR 6870 is a trustworthy high slope pentode for use as a small transmitting valve or as a video valve giving a larger output with low anode loads than an ordinary R.F. amplifying pentode.

		RATINGS	
Heater Voltage	...	6.3	} or { 12.6 volts
Heater Current	...	0.6		} or { 0.3 amp.
Anode Voltage	...	...	300 volts max.
Anode Voltage ($I_a = 0$)	...	...	500 volts max.
Anode Dissipation	...	...	6.3 watts max.
Screen Voltage	...	...	250 volts max.
Screen Voltage ($I_{g_2} = 0$)	...	...	500 volts max.
Screen Dissipation	...	...	2.0 watts max.
Control Grid Current (D.C.)	...	...	3.0 mA max.
Control Grid Circuit Resistance	—Fixed Bias	...	0.1 MΩ max.
	Auto Bias	...	0.5 MΩ max.
Cathode Current	...	...	50 mA max.
Frequency of Operation	...	...	150 Mc's max.
Shock (Intermittent Service)	...	...	500 g
Vibration (Continuous Service)	...	...	2.5 g

OPERATING CHARACTERISTICS (Class A)

$V_a = V_{g_2} = 180$ V, $V_{g_1} = V_{g_3} = 0$ V, $R_k = 56$ ohm, $C_k = 1,000$ μ F,
 $V_h = 6.3$ V (parallel connection)

	Min.	Bogey	Max.	
Anode Current	19	25	31	mA
Screen Current	1.5	3.5	5.5	mA
Mutual Conductance	7.2	9.0	10.8	mA/V
Anode Impedance		170		kΩ
Inner Amplification Factor ($\mu_{B_1} = g_2$)	28	35	42	
Control Grid Voltage for $I_a \approx 100$ μ A		-9	-12	volts

INTER-ELECTRODE CAPACITANCES*

Input	...	...	8.5	pF
Output	...	...	7.0	pF
Control Grid to Anode (max.)	...	...	0.025	pF

* With no external shield.

Type 6870 is a commercial equivalent to CV5121.