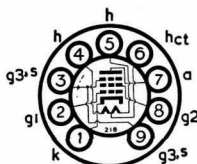


TYPE 6870

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		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 ($\mu_{g_1 - g_2}$)	28	35	42	
Control Grid Voltage for $I_a = 100$ 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.

