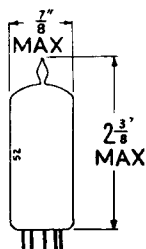
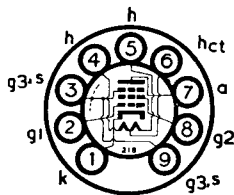


## Current Equipment Type



TYPE 6870  
TRUSTWORTHY  
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 mA max.
Control Grid Circuit Resistance—Fixed bias	...	...	...	...	0.1 M $\Omega$ max.
Auto bias	...	...	...	...	0.5 M $\Omega$ max.
Cathode Current	...	...	...	...	50 mA max.
Frequency of Operation	...	...	...	...	150 Mc/s. max.
Shock (Intermittent Service)	...	...	...	...	550 g
Vibration (Continuous Service)	...	...	...	...	2.5 g

## OPERATING CHARACTERISTICS (CLASS A)

Anode Voltage	...	...	...	...	180	250 volts
Screen Voltage	...	...	...	...	180	250 volts
Autobias Resistor	...	...	...	...	56	120 $\Omega$
Anode Current	...	...	...	...	25	25 mA
Screen Current	...	...	...	...	3.5	3.5 mA
Mutual Conductance	...	...	...	...	9.0	8.5 mA/V
Anode Impedance	...	...	...	...	170	230 k $\Omega$
Inner Amplification Factor ( $\mu_{g_1-g_2}$ )	...	...	...	...	35	35
Control Grid Voltage for $I_a = 100\mu\text{A}$	...	...	...	...	-9	-13.5V

## INTER-ELECTRODE CAPACITANCES

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

