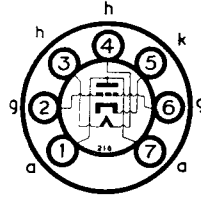
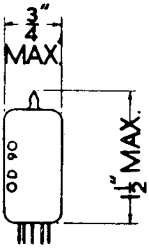


## Current Equipment Type

### TYPE 6AF4A MINIATURE U.H.F. OSCILLATOR TRIODE



The BRIMAR 6AF4A is intended for use as a U.H.F. oscillator valve up to 1000 Mc/s.

#### RATINGS

Heater Voltage	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	0.225 amp.
Anode Voltage	...	...	...	...	...	150 volts max.
Anode Dissipation	...	...	...	...	...	2.25 watts max.
D.C. Grid Voltage	...	...	...	...	...	-50 volts max.
D.C. Grid Current	...	...	...	...	...	8mA max.
Grid Circuit Resistance using Cathode Bias	...	...	...	...	...	500 K $\Omega$ max.
D.C. Cathode Current	...	...	...	...	...	28 mA max.
Peak Heater-Cathode Voltage—Heater negative	...	...	...	...	...	50 volts max.
Heater positive	...	...	...	...	...	50 volts max. *

\* D.C. component 25 volts max.

#### OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	...	80	100 volts
Cathode Bias Resistor	...	...	...	...	...	150	150 $\Omega$
Anode Current	...	...	...	...	...	16	20 mA
Mutual Conductance	...	...	...	...	...	6.6	7.5 mA/V
Anode Impedance	...	...	...	...	...	2.27	2.13 K $\Omega$
Amplification Factor	...	...	...	...	...	15	16

#### TYPICAL CONDITIONS AS AN OSCILLATOR AT 950 Mc/s.

Anode Voltage	...	...	...	...	...	100 volts
Grid Resistance	...	...	...	...	...	10 K $\Omega$
Anode Current	...	...	...	...	...	22 mA
Grid Current	...	...	...	...	...	400 $\mu$ A
Power Output	...	...	...	...	...	160 mW

#### INTER-ELECTRODE CAPACITANCES

Input	...	...	...	...	...	2.2 pF
Output	...	...	...	...	...	0.45 pF
Grid to Anode	...	...	...	...	...	1.9 pF

