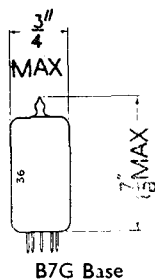
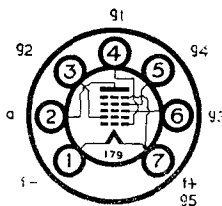


Current Equipment Type



TYPE 1AC6 MINIATURE BATTERY HEPTODE FREQUENCY CHANGER



The BRIMAR 1AC6 is a new battery heptode frequency changer featuring improved short-wave performance and reduction in H.T. current consumption compared with type 1R5. The provision of separate connections for the oscillator anode and screen grid allow the use of conventional oscillator circuits and a much improved oscillator performance. As a self oscillating frequency changer it operates uniformly up to 30 Mc/s.

RATINGS

Filament Voltage	...	...	...	...	...	...	1.4 volts
Filament Current	...	...	...	...	...	...	0.05 amp.
Anode Voltage	...	...	...	...	...	...	90 volts max.
Screen (g_4) Voltage	...	...	...	...	...	...	90 volts max.
Oscillator Anode (g_2) Voltage	...	...	...	...	...	...	60 volts max.
Cathode Current	...	...	...	...	...	...	4 mA max.

OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	...	...	85 volts
Anode Current	...	...	...	...	...	...	0.7 mA
Screen Voltage	...	...	...	...	...	...	60 volts
Screen Current	...	...	...	...	...	...	0.15 mA
Oscillator Anode Voltage	...	...	...	...	...	...	30 volts
Oscillator Anode Current	...	...	...	...	...	...	1.6 mA
Oscillator Grid Resistor*	...	...	...	...	...	...	27k Ω
Oscillator Grid Current	...	...	...	...	...	...	115 μ A
Conversion Conductance	...	...	...	...	...	...	325 μ A/V
Control Grid Bias (For conversion of 3.25 μ A/V.)	...	...	...	...	...	...	-6 volts
Anode Impedance	...	...	...	...	...	...	0.65 meg.

INTER-ELECTRODE CAPACITANCES

(with no external shield)

R.F. input ($c_{g_3, all}$)	...	...	...	...	...	...	7.5 pF.
I.F. output ($c_{a, all}$)	...	...	...	...	...	...	8.5 pF.
Oscillator input ($c_{g_1, all}$)	...	...	...	...	...	...	4.0 pF.
Oscillator output ($c_{g_2, all}$)	...	...	...	...	...	...	5.0 pF.
c_{g_3, g_1}	...	...	...	...	...	...	0.2 pF. max.
$c_{g_3, a}$	...	...	...	...	...	...	0.4 pF. max.

* The oscillator grid resistor should be returned to the positive filament connection pin 7.

