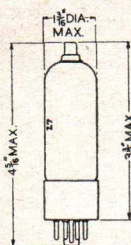
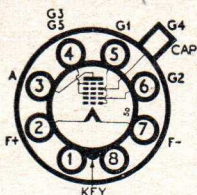


Replacement Types

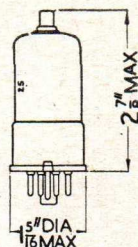
TYPES 1A7G, 1A7GT



1A7G



Note.—Type 1A7GT has Pin 1 connected to metal shell.



1A7GT

BATTERY HEPTODE FREQUENCY CHANGERS (OCTAL BASE)

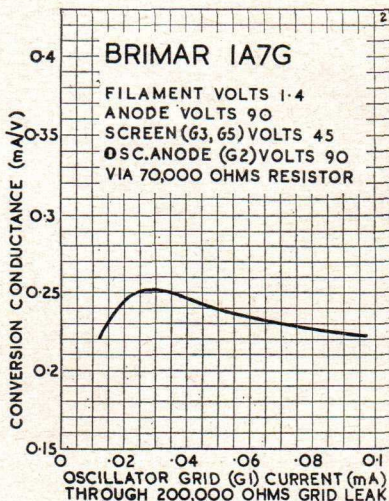
The BRIMAR types 1A7G and 1A7GT are self-oscillating frequency changers of the heptode (pentagrid) class. They are suitable for use in battery operated all-wave receivers and will operate satisfactorily at frequencies as high as 15 Mc/s. With the exception of their overall dimensions and inter-electrode capacitances the two valves have identical characteristics. When replacing one type by the other the receiver may require re-trimming to obtain the maximum gain.

RATINGS

Filament Voltage	...	1.4 volts
Filament Current	...	0.05 amp.
Anode Voltage	...	90 volts max.
Screen (G3, G5) Voltage	...	55 volts max.
Osc. Anode (G2) Voltage	...	90 volts max.
Total Cathode Current	...	3 mA max.

OPERATING CHARACTERISTICS

Anode Voltage	...	90 volts
Anode Current	...	0.55 mA
Screen Supply Voltage	...	90 volts
Screen Series Resistor	...	70,000 ohms
Screen Current	...	0.6 mA
Oscillator Anode Voltage	...	90 volts
Oscillator Anode Current	...	1.2 mA
Oscillator Grid (G1) Resistor	...	0.2 meg.
Oscillator Grid Current	...	0.035 mA
Control Grid (G4) Voltage	...	0 volts
Anode Impedance	...	0.6 meg.
Conversion Conductance	...	0.25 mA/V



INTER ELECTRODE CAPACITANCES*

	Type 1A7G	Type 1A7GT
R.F. Input (Control Grid to all other electrodes)	6.5	7.5 pF
I.F. Output (Anode to all other electrodes)	11	10 pF
Oscillator Input (Oscillator Grid to all except oscillator Anode)	4.0	3.2 pF
Oscillator Output (Oscillator Anode to all except oscillator Grid)	4.6	4.0 pF
Control Grid to Oscillator Grid	0.12	0.12 pF
Control Grid to Anode	0.3	0.4 pF
Control Grid to Oscillator Anode	0.26	0.25 pF
Oscillator Grid to Oscillator Anode	0.9	1.5 pF

* With close fitting shield connected to Pin 7.