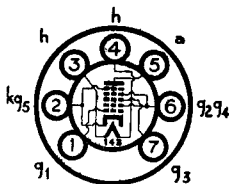


B7G Base

TYPE **6BE6**  
 MINIATURE  
 HEPTODE  
 FREQUENCY  
 CHANGER



Owing to its specialized structure, type 6BE6 may be employed as a self-oscillating frequency changer at frequencies exceeding 60 Mc/s, with excellent frequency stability.

## RATINGS

Heater Voltage	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	0.3 amp.
Anode Voltage	...	...	...	...	...	300 volts max.
Anode Dissipation	...	...	...	...	...	1.0 watt max.
Screen ( $g_2, g_4$ ) Voltage	...	...	...	...	...	100 volts max.
Screen Dissipation	...	...	...	...	...	1.0 watt max.
Total Cathode Current	...	...	...	...	...	14 mA max.

## OPERATING CHARACTERISTICS (SEPARATE EXCITATION)

Anode Voltage	...	...	...	...	...	250 volts
Anode Current	...	...	...	...	...	3.0 mA
Screen Voltage	...	...	...	...	...	100 volts
Screen Current	...	...	...	...	...	7.1 mA
Control Grid ( $g_3$ ) Voltage	...	...	...	...	...	-1.5 volts
Anode Impedance	...	...	...	...	...	1.0 meg.
Oscillator Grid ( $g_1$ ) Current	...	...	...	...	...	0.5 mA
Oscillator Grid Resistor	...	...	...	...	...	20,000 ohms
Oscillator Mutual Conductance	...	...	...	...	...	7.25 mA/V
Conversion Conductance	...	...	...	...	...	0.475 mA/V†
Control Grid Voltage	...	...	...	...	...	-30 volts

(For Conversion Conductance of 0.005 mA/V).

† When used with self excitation this value depends on the position of the cathode tap up the coil.

## INTER-ELECTRODE CAPACITANCES \*

R.F. Input	...	...	...	...	...	7.2 pF
I.F. Output	...	...	...	...	...	8.6 pF
Oscillator Input	...	...	...	...	...	5.5 pF
Control Grid to Anode	...	...	...	...	...	0.3 pF max.

\* Measured with no external shield

Note : The characteristics shown with separate excitation approximate closely to those obtained with self excitation and zero bias.

Type 6BE6 is a commercial equivalent of the CV453.

