

## Low Cost Gunn Oscillators

### FEATURES:

- ❖ Low cost and production ready
- ❖ Mechanical tuning ability
- ❖ Low AM/FM noise and harmonics
- ❖ High frequency and power stability
- ❖ Temperature range: -40 to +85°C

### APPLICATIONS:

- ❖ Traffic control systems
- ❖ Communication systems
- ❖ Radar systems



### DESCRIPTION:

#### CMGL Series

**CMGL series** Low Cost Gunn Oscillators are offered in the frequency range of 8.2 to 40GHz. These oscillators utilize either high performance GaAs Gunn diodes and high Q cavity designs to yield excellent phase noise and stability. These oscillators are free running oscillators with extremely high frequency and power stability. The oscillators are designed for fixed frequency applications. However, the oscillators can be mechanically tuned to a selected frequency and can be achieved by mechanically tuning the self-locking screw provided.

### SPECIFICATIONS:

Model Numbers	CMG900910	CMG422410	CMG283510
Frequency Band	X	K	Ka
Connector Type	WR-90	WR-42	WR-28
Frequency Range (GHz)	9.375	24.15	35.00
Output Power (dBm, min)	10	10	10
Frequency Tuning (MHz)	±100	±500	±500
Harmonics (dBc), Typical	-20	-20	-20
Phase Noise (dBc/Hz @ 100 KHz offset)	-105	-98	-95
Frequency Stability (MHz/°C)	-0.1	-0.2	-0.4
Power Stability (dB/°C)	-0.01	-0.02	-0.03
Bias Voltage (Volts), Typical	+10.0	5.0	5.0
Bias Current (mA), Typical	150	250	350

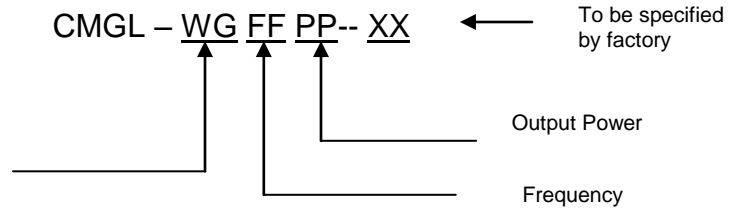
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### HOW TO ORDER:

Specify Model Number

Waveguide Size



**Example:** To order a Low Cost Gunn Oscillator, specify, CMGL-XX.

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