

Features

- Low Cost
- High-Volume Design
- Various Output Power Levels
- Pulsed DC Input Voltage
- Low-Power Consumption
- FM CW Operation



Applications

- Intrusion Alarm Systems
- Speed Radar
- Presence Sensing
- Traffic Control
- Level Sensing
- Weather Radar
- Amateur Communications

Description

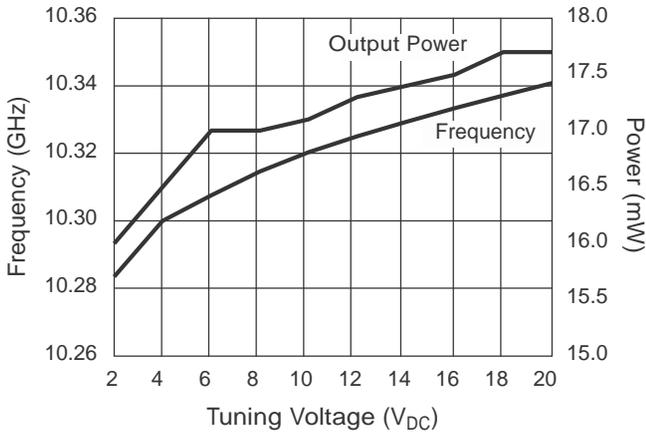
Microsemi's voltage Gunn controlled oscillators are designed to provide an affordable, frequency-modulated microwave power at a discrete frequency. The varactor tuning of the oscillator permits carrier frequency modulation for ranging information.

Specifications @ 25°C

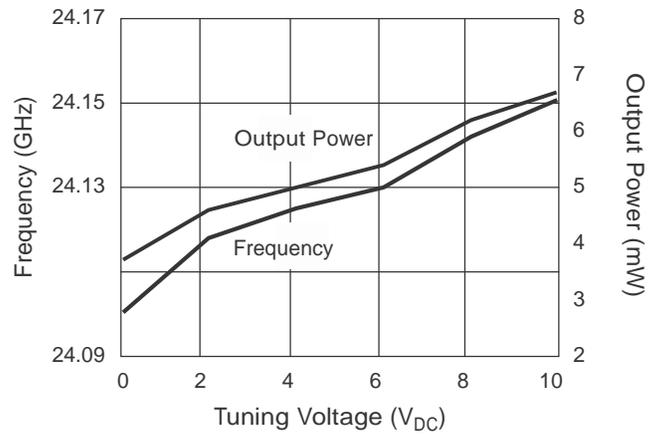
Part Number	Frequency (GHz)	Typ. Output Power (mW)	Freq. Drift/ Temperature (KHz/°C)	Min. Electronic Tuning Range (MHz)	Tuning Voltage (V _{DC})	Operating Voltage (V _{DC})	Max. Operating Current (mA)
X Band Voltage Controlled Oscillators							
MO87108-1	10.300	15	400	40	+1 to +20	+8.0 to +10.0	200
MO87108-2	10.300	25	400	40	+1 to +20	+8.0 to +10.0	600
MO87108-3	10.300	40	400	40	+1 to +20	+8.0 to +10.0	600
MO87603B	9.405	7–25	450	63–100	0 to +13	+10.5	200
K Band Voltage Controlled Oscillators							
MO9070	24.125	3	1000	25	+2 to +10	+5.0	100
MO87828-1	21.500	10	300	40	0 to +15	+5.0 to +8.0	400
MO87828-2	22.100	10	300	40	0 to +15	+5.0 to +8.0	400
MO87828-3	22.700	10	300	40	0 to +15	+5.0 to +8.0	400
MO87828-4	23.300	10	300	40	0 to +15	+5.0 to +8.0	400
MO87827-1	21.500	60	300	30	0 to +10	+5.0 to +8.0	1400
MO87827-2	22.100	60	300	30	0 to +10	+5.0 to +8.0	1400
MO87827-3	22.700	60	300	30	0 to +10	+5.0 to +8.0	1400
MO87827-4	23.300	60	300	30	0 to +10	+5.0 to +8.0	1400
Ka Band Voltage Controlled Oscillators							
MO9405-1	34.000	15	1250	100	+1 to +20	+4.0 to +6.0	350

Other frequencies and power levels available upon request.
Operating temperature is -30°C to +70°C.

Performance Characteristics

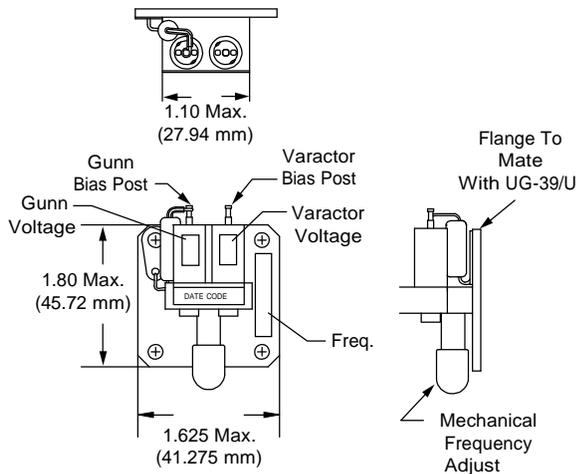


MO87108 Series VCO
Frequency and Power / Tuning Voltage



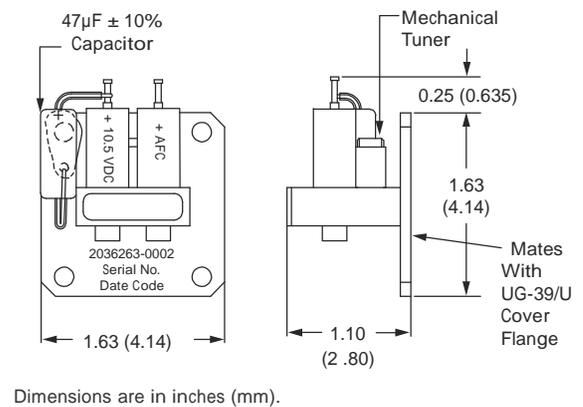
MO9070 Series VCO
Frequency and Power / Tuning Voltage

MO87108

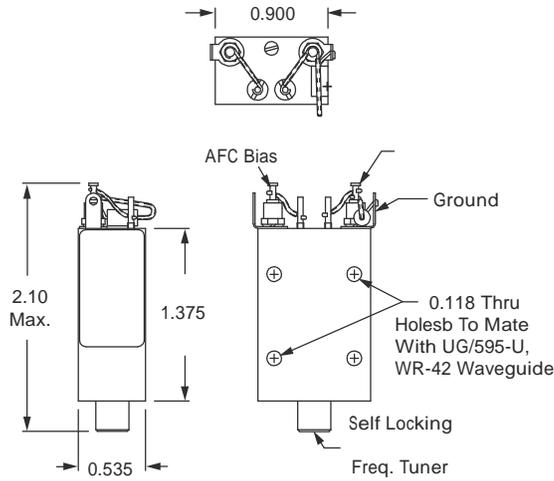


Dimensions are in inches (mm).

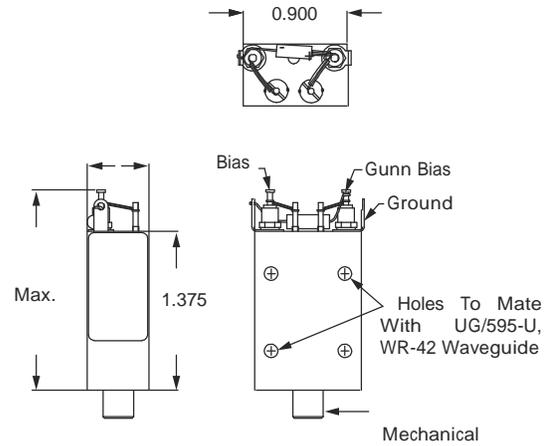
MO87603B



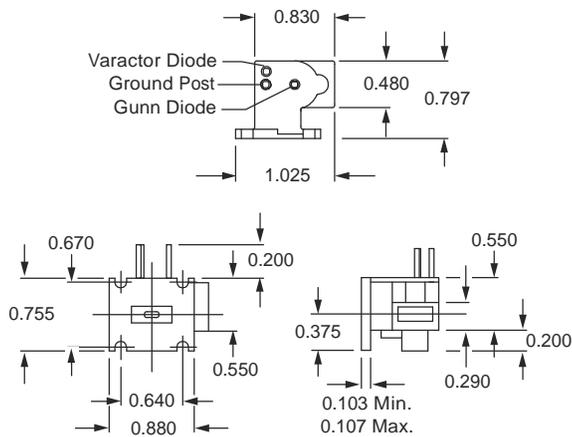
Dimensions are in inches (mm).

MO87827


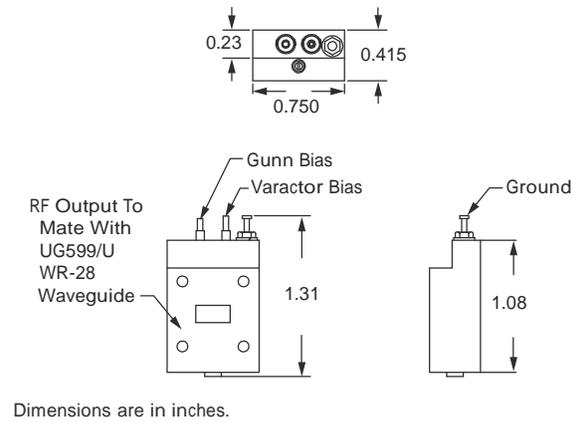
Dimensions are in inches.

MO87828


Dimensions are in inches.

MO9070


Dimensions are in inches.

MO9405


Dimensions are in inches.