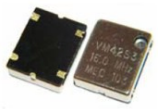
GS42 Sine Wave VCXO

11.4 x 9.6 x 2.5mm SMD — 10.0MHz ~ 156.0MHz

FEATURES

- **Sine Wave output VCXO**
- **Output 0dBm into 50Ω load, higher output available**
- **Harmonics < 20dBc**
- **Low current consumption**



DESCRIPTION

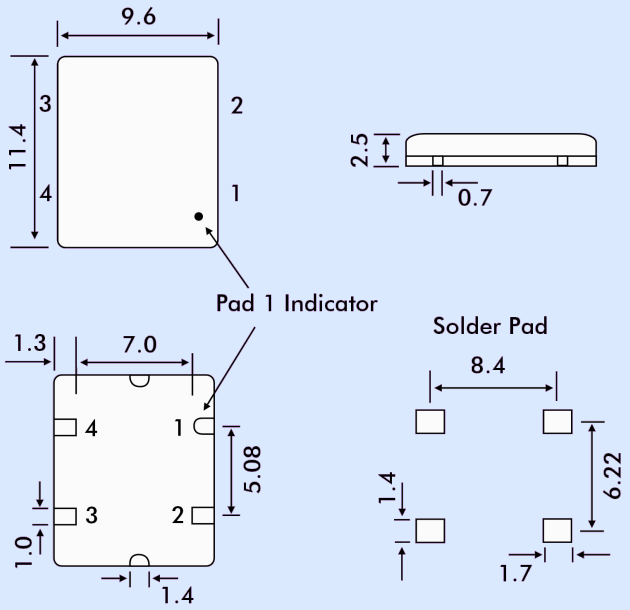
GS42 sine wave VCXOs provide a true sine wave out output. The VCXOs are packaged in the industry-standard, 11.4 x 9.6mm SMD package. The VCXO is produced to close tolerances and has low current consumption.

SPECIFICATION

Frequency Range:	10.0MHz to 156.0MHz
Input Voltage:	+3.3±5% or +5.0VDC ±5%
Frequency Stability:	*See table*
Control Voltage Centre:	+1.65 VDC
Initial Frequency Accuracy:	±15ppm with Conrol V at +1.65VDC
Control Voltage Range:	+0.3V to +3.0VDC
Frequency Deviation Range:	±80ppm typical*
Output Wave Form:	True Sine Wave
Output Level:	0dBM into 50Ω load**
Harmonics:	<-20dBc
Phase Noise:	-140dBc/Hz at 10kHz offset
Current Consumption:	*See table*
Start-up Time:	6.0ms typical
Storage Temperature:	-50° to +100°C
Sub-Harmonics:	None
Ageing:	±5ppm per year maximum
Enable/Disable:	*Not implemented - 4 pad package*
RoHS Status:	Fully compliant or non-compliant

* *Wider pulling range available*
** *Higher output <5dBm available*

OUTLINE & DIMENSIONS



Pad Connections

1 Voltage Control (rounded pad)
2 Ground
3 Output
4 Supply Voltage

FREQUENCY STABILITY

Stability Code	Stability ±ppm	Temp. Range
A	25	0°~+70°C
B	50	0°~+70°C
C	100	0°~+70°C
D	25	-40°~+85°C
E	50	-40°~+85°C
F	100	-40°~+85°C

If non-standard frequency stability is required
Use 'I' followed by stability, i.e. I20 for ±20ppm

CURRENT CONSUMPTION

Frequency	Supply Voltage (±5%)	
	+3.3V	+5.0V
10MHz	9mA	18mA
100MHz	18mA	34mA
150MHz	19mA	36mA

PART NUMBERING

Example: 3GS42G-A-80N-25.000

- Supply Voltage
  - 3 = 3.3 Volts
  - 5 = 5.0 Volts
- Series Designation GS42
- RoHS Status
  - G = compliant
  - Blank = non-compliant
- Frequency Stability (*see table*)
- Pull Range ±ppm
- Pull Range Code
  - M = Maximum
  - N = Minimum
  - T = Typical
- Frequency MHz

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