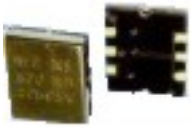
GSR62 Sine Wave VCXO

11.4 x 9.6 x 2.5mm SMD — 10.0MHz ~ 30.0MHz

FEATURES

- **Sine Wave output VCXO**
- **Output 10kΩ //10pF load, 1.0V p-p**
- **Harmonics < 25dBc**
- **Low current consumption**

RoHS



DESCRIPTION

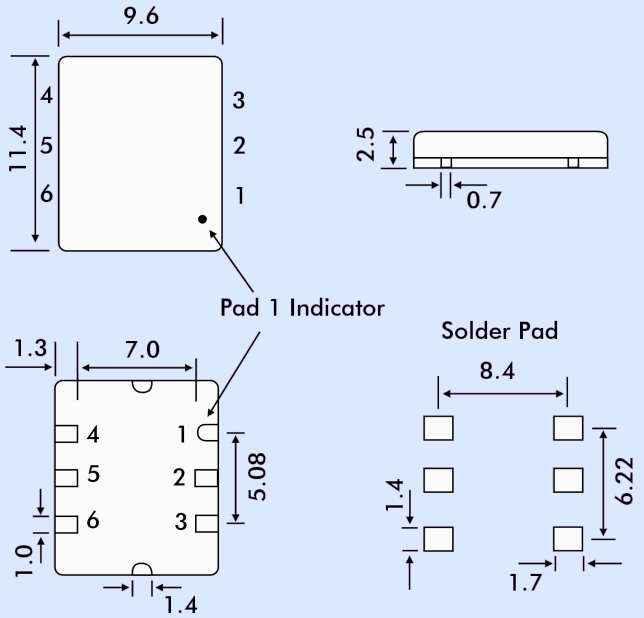
GSR62 sine wave VCXOs provide a true sine wave out output. The VCXOs are packaged in the industry-standard, 6 pad 11.4 x 9.6mm SMD package. The VCXO is produced to close tolerances and has low current consumption.

SPECIFICATION

Frequency Range:	10.0MHz to 30.0MHz
Input Voltage:	+2.8V, +3.3V±5% or +5.0VDC ±5%
Frequency Stability:	*See table*
Control Voltage Centre:	+2.5 VDC
Initial Frequency Accuracy:	±15ppm with Conrol V at +2.5VDC
Control Voltage Range:	+0.5V to +4.5VDC
Frequency Deviation Range:	±100ppm typical*
Output Wave Form:	True Sine Wave
Output Level:	10kΩ//10pF load, 1.0V p-p
Harmonics:	<-25dBc
Phase Noise:	-130dBc/Hz at 1kHz offset
Current Consumption	
Supply = 2.8V:	1.0mA
Supply = 3.3V:	1.1mA
Supply = 5.0V:	1.2mA
Start-up Time:	2.0ms typical
Storage Temperature:	-50° to +125°C
Sub-Harmonics:	None
Ageing:	±5ppm per year maximum
Enable/Disable:	Output is high impedance (disabled) when E/D pad/pin is taken LOW. Disable time is 150ns maximum
RoHS Status:	Fully compliant

* *Wider pulling range available*

OUTLINE & DIMENSIONS



Pad Connections

1 Voltage Control (rounded pad)
2 Not connected
3 Ground
4 Output
5 Not connected
6 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

PART NUMBERING

Example: 3GSR62G-A-80N-25.000

Supply Voltage
3 = 3.3 Volts
5 = 5.0 Volts
Series Designation GSR62
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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