EUROQUARTZ

GSR53 Sine Wave VCXO

5 x 3.2 x 1.2mm SMD — 10.0MHz ~ 30.0MHz

FEATURES

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

RoHS

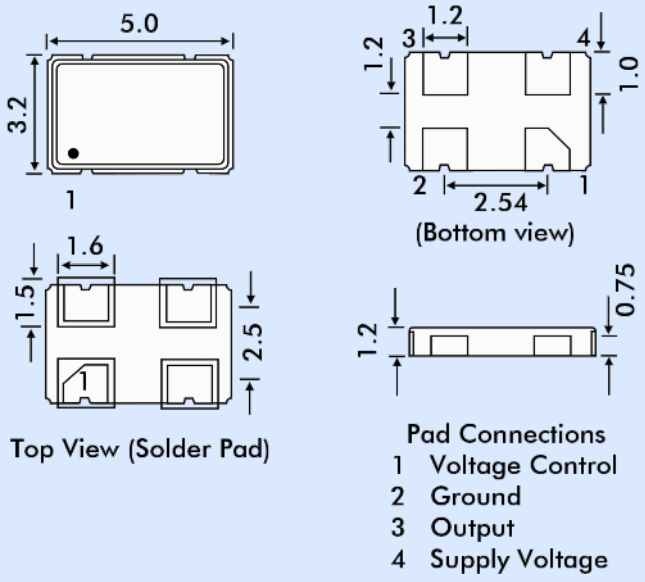
DESCRIPTION

GSR53 sine wave VCXOs provide a true sine wave out output. The VCXOs are packaged in the industry-standard, 4 pad 5 x 3.2 x 1.2mm 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:	±50ppm 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:	Not implemented - 4 pad package
RoHS Status:	Fully compliant

OUTLINE & DIMENSIONS



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: 3GSR53G-A-50N-25.000

- Supply Voltage: 3 = 3.3 Volts; 5 = 5.0 Volts
- Series Designation GSR53
- 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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