

FEATURES

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

DESCRIPTION

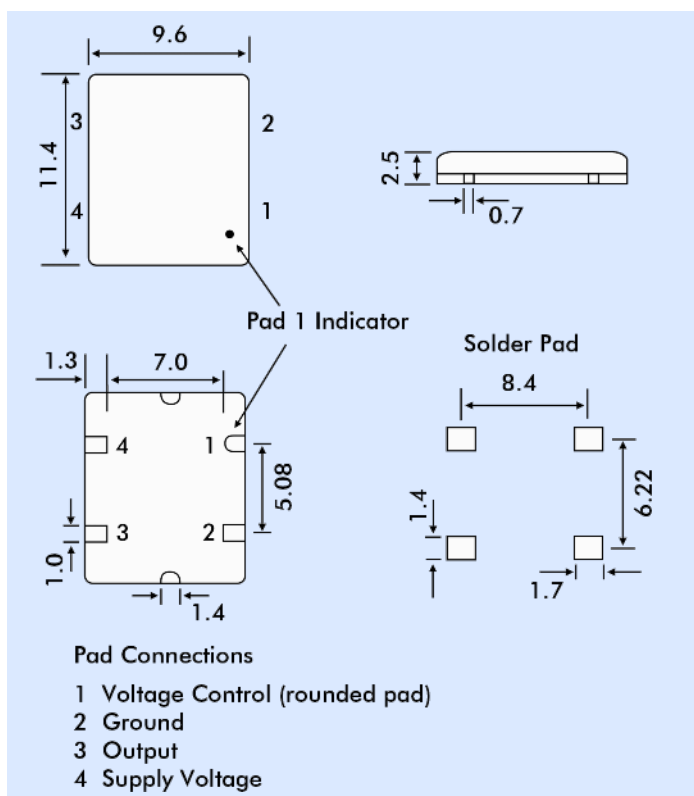
GSR42 sine wave VCXOs provide a true sine wave out output. The VCXOs are packaged in the industry-standard, 4 pad 11.4 x 9.6mm SMD package. The VCXO is produced to close tolerances and has low current consumption.

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 Control 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 or non-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

CURRENT CONSUMPTION

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

PART NUMBERING

