

SiT7202

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60 to 220 MHz, ±100 ppb Endura Ruggedized Low Noise Super-TCXO

✔ Pre-Production Sampling

The SiT7202 is a commercial-off-the-shelf (COTS) ruggedized MEMS TCXO that is ideal RF systems. This precision timing device combines ±100 ppb frequency stability over -40 to 105°C with RF-quality phase noise, ±110 fs phase jitter and low g-sensitivity of 0.01 ppb/g in a compact 5035 ceramic package. The SiT7202 Super-TCXO can replace a fragile and bulky OCXO in equipment designed for rough environments.

This Low Noise Super-TCXO has excellent Allan deviation rated at 1E-11 to reduce error rate in processing signals with long integration time such as encrypted signals. SiT7202 is available with ±400 ppm frequency tuning with 5E-14 resolution through I²C and SPI.

Related Blog: [New Low-Phase-Noise High-Stability MEMS Super-TCXOs Replace Quartz OCXOs in RF Systems](#)

Datasheet

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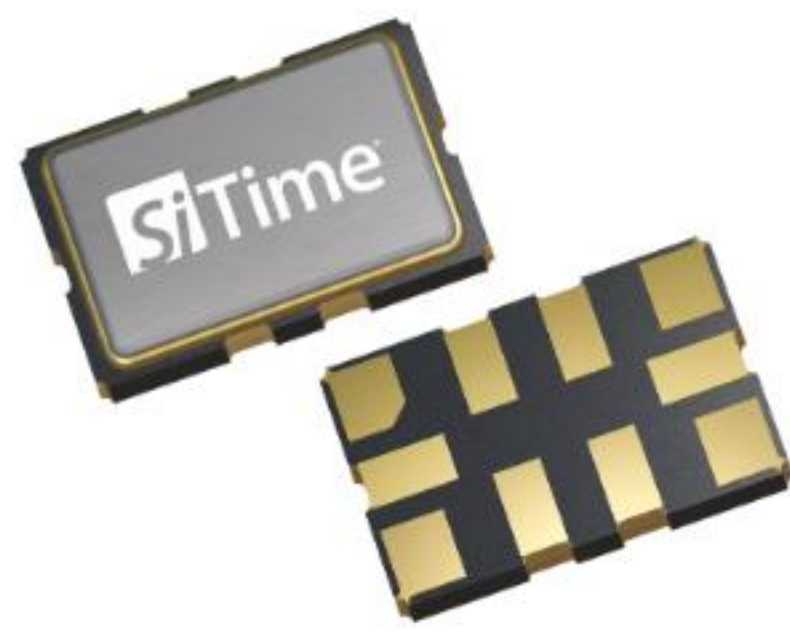
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Frequency	60 to 220 MHz
Frequency Stability (ppm)	±0.1, ±0.2, ±0.25
Operating Temperature Range (°C)	-40 to 105
Package Type (mm ³)	5.0 x 3.5, 10-pin
Phase Jitter (rms)	110 fs
Pull Range (ppm)	±3.125, ±6.25, ±10, ±12.5, ±25, ±50, ±100, ±200, ±400
Voltage Supply (V)	1.8, 2.5, 2.8, 3.0, 3.3
Features	Low-phase-noise, precision TCXO with digital control. Contact SiTime for -55 to 105°C
Availability	Pre-Production Sampling

