

# SiT7101

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## 10 to 60 MHz, ±3 ppb Ruggedized OCXO

✔ Pre-Production Sampling

The ruggedized Endura Epoch SiT7101 OCXO is a MEMS-based device, designed to the solve long-standing problems of quartz OCXOs. Leveraging SiTime’s unique temperature sensing technology and advanced CMOS design, it delivers excellent stability in the presence of environmental stressors such as airflow, temperature perturbation, vibration, shock, and EMI.

This OCXO delivers significant improvements in size, weight, and power (SWaP) with up to 20X smaller size, up to 300X less weight, and up to 2X lower power. SiTime’s silicon manufacturing process ensures the highest quality with shorter lead times for a robust supply chain.

The SiT7101 OCXO comes in a small surface mount package (9.0 mm x 7.0 mm x 3.6 mm) and offers ±3 ppb over-temp stability over -40°C to 95°C, ±0.02 ppb/°C typical frequency slope ( $\Delta F/\Delta T$ ), and 5E-12 Allen deviation. The SiT7101 has a frequency pull range of ±400 ppm with fine resolution as low as 0.05 ppt (5E-14).

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Datasheet

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### Frequency

10 to 60 MHz

### Frequency Stability (ppm)

±0.003 (±3 ppb), ±0.005 (±5 ppb)

### Temperature Range

-40 to 85, -40 to 95

### Power Consumption

2.5, 2.0, 0.5

### Frequency Pull

±400 ppm

### Frequency Slope

±0.02 ppt/°C

### Features

±20 ppt/°C frequency slope, 5E-12 ADEV, 420 mW steady state power consumption

### Availability

Pre-Production Sampling