Si Time



- More robust in harsh environments
- Better stability over a wide temperature range
- Programmability for flexible design
- High reliability, lifetime warranty

A small part from SiTime runs a big part of your world





FACTORY AUTOMATION

Single Ended, Differential, and Spread Spectrum Oscillators

SiT8918/19 | SiT9366/67 | SiT9005 | SiT9025

- High temperature operation | -55 to +105°C
- Vibration | 0.1 ppb/g typical
- EMI reduction | Up to 30 dB lower



SMART GRID

MHz Super-TCXOs and 32-kHz Oscillators

SiT5356 | SiT5357 | SiT1580 | SiT1630

- Precision timing | ±100 ppb up to 105°C
- Airflow and thermal shock resistant | 1 ppb/°C
- Low power for longer battery life | 4.5 μA at 100 kHz



PRECISION GNSS POSITIONING

OCXOs and Super-TCXOs

SiT5711/12 | SiT5358/59 | SiT5356/57

- Precision timing | ±5 ppb to ±100 ppb
- Vibration resistant | 0.1 ppb/g typical
- High reliability | >1 billion hour MTBF



TEST AND MEASUREMENT

OCXOs, Super-TCXOs, and Oscillators

SiT5711/12 | SiT5721/22 | SiT5358/59 | SiT5356/57 | SiT8008/09 | SiT9366/67

- Lower aging | ±500 ppb over 20-years
- Programmability | Any frequency, stability, voltage within wide range
- Reduce size | Smallest Stratum 3E OCXO



INDUSTRIAL IOT

MHz Super-TCXOs and 32-kHz Oscillators

SiT5356/57 | SiT1580 | SiT1532/33 | SiT1630

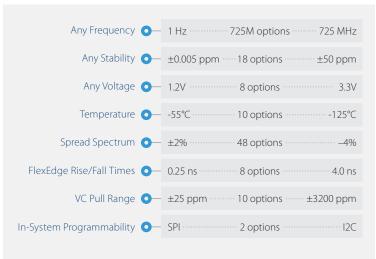
- Precision timing | ±100 ppb, 3e-11 ADEV
- · Lower power for longer battery life
- Smallest 32 kHzTCXO | 1.5 mm x 0.8 mm



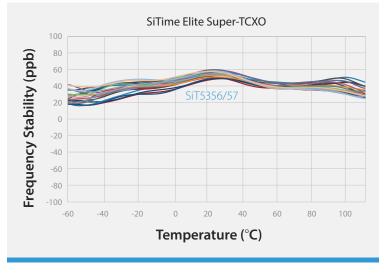
Better Quality, Reliability, and Robustness



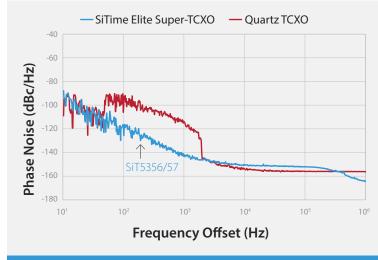
Rich Programmable Features



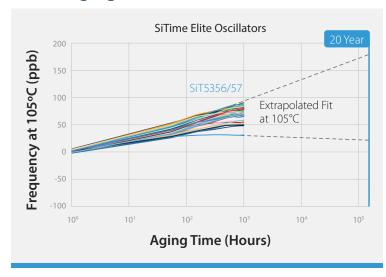
Better Stability



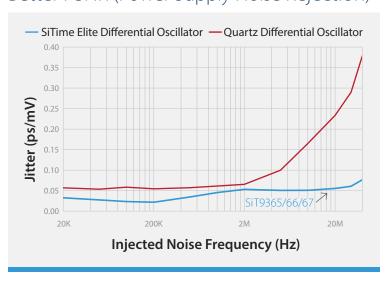
Better Vibration Resistance



Better Aging



Better PSNR (Power Supply Noise Rejection)







SiTime Base Part No.	Output Frequency	Frequency Stability (ppm)	Supply Volt. (V)	Supply Current (Typical)	Packages (mm x mm)	Output Logic	Features	
SINGLE-ENDED OSCILLATORS Better reliability Pin-compatible footprints								
SiT1602, SiT8008/09	1 MHz to 137 MHz	±20, ±25, ±50	1.8, 2.5 to 3.3	3.1 to 5.5 mA (0.6 - 1.0 μA stby)	QFN: 2.0 x 1.6, 2.5 x 2.0,		1.3 ps RMS phase jitter, Field Programmable	
SiT1618, SiT8918/19	1 MHz to 137 MHz	±20, ±25, ±30, ±50		3.6 to 5.4 mA (1.0 μA stby)	3.2 x 2.5, 5.0 x 3.2, 7.0 x 5.0	LVCMOS		
SiT2018/19	I MINZ to 137 MINZ				SOT23: 2.9 x 2.8			
SiT1630	32.768, 16.384 kHz	75, 100, 150	1.5 to 3.63	1.0 μΑ	QFN: 2.0 x 1.2		Small 2012 QFN package	
DIFFERENTIAL OSCILLATORS Better reliability 0.2 ps/mV power supply noise rejection (PSNR)								
SiT9120/21/22	1 MHz to 625 MHz	±10, ±20, ±25, ±50	2.5, 3.3, 2.25 to 3.63	54 to 69 mA	QFN: 3.2 x 2.5, 5.0 x 3.2, 7.0 x 5.0	LVPECL, LVDS	0.6 ps RMS phase jitter	
SiT9365/66/67*	1 MHz to 725 MHz		2.5 to 3.3	76 to 84 mA		Low-swing LVPECL, LVPECL, LVDS, HCSL	0.21 ps RMS phase jitter	
VCXOs ±25 to ±3200 ppm pull range, <1% linearity Better reliability 0.1 ppb/g accelerator sensitivity								
SiT3372/73*	1 MHz to 700 MHz	±15, ±25, ±30, ±50	2.5 to 3.3	76 to 84 mA	QFN: 3.2 x 2.5, 5.0 x 3.2, 7.0 x 5.0	LVPECL, LVDS, HCLS	0.21 ps RMS phase jitter	
EMI REDUCTION OSCILLATORS Most flexible EMI reduction options Low cycle-cycle jitter								
SiT9005 SiT9025	1 MHz to 150 MHz	±20, ±25, ±50	1.8, 2.5 to 3.3	5.0 to 5.6 mA (0.4 - 2.1 μA stby)	QFN: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5	LVCMOS	40 spread options, up to ±2.0%, down to -4.0%, Smallest, Field Programmable	
DCXOs In-System Programmable Digital pull for lower noise Up to ±1600 ppm pull range, 5 ppt pull resolution, <1% linearity								
SiT3521/22*	1 MHz to 725 MHz	±20, ±25, ±50	2.5 to 3.3	70 to 82 mA	SMD: 5.0 x 3.2	LVPECL, LVDS, HCSL	I2C programmable, 0.23 ps RMS phase jitter	
Super-TCXOs ±	Super-TCXOs ±1 ppb/°C ΔF/ΔT slope 5 ppt resolution frequency control 0.001 ppb/g acceleration sensitivity							
SiT5155/56/57*	1 MHz to 625 MHz	±0.5, ±1, ±2.5	2.5, 2.8, 3.0, 3.3	40 to 45 mA	SMD: 5.0 x 3.2	LVCMOS, Clipped Sinewave	I2C programmable, ±1 ppb/°C (ΔF/ΔT) slope, -40 to +105°C	
SiT5356/57*	1 MHz to 220 MHz	±0.1, ±0.2, ±0.25						
STRATUM 3E OCXOs Airflow and thermal shock resistant Stratum 3E compliant – better holdover in dynamic conditions Smallest OCXO								
SiT5711**	1 MHz to 60 MHz	±0.005, ±0.008	3.3	180 mA (at 50°C in steady state)	9.0 x 7.0, 14.0 x 9.0, 25.0 x 22.0	LVCMOS, Clipped Sinewave	±50 ppt/°C ΔF/ΔΤ	
SiT5712**	60 MHz to 220 MHz							

Field Programmable Oscillators – Always Available



ANY FREQUENCY





ANY VOLTAGE ANY

ANY STABILITY

Easy-to-use programming kit

- Don't waste time searching & waiting for timing devices
- Optimize system performance with custom frequencies
- Instantly reduce EMI with programmable drive strength



SiTime