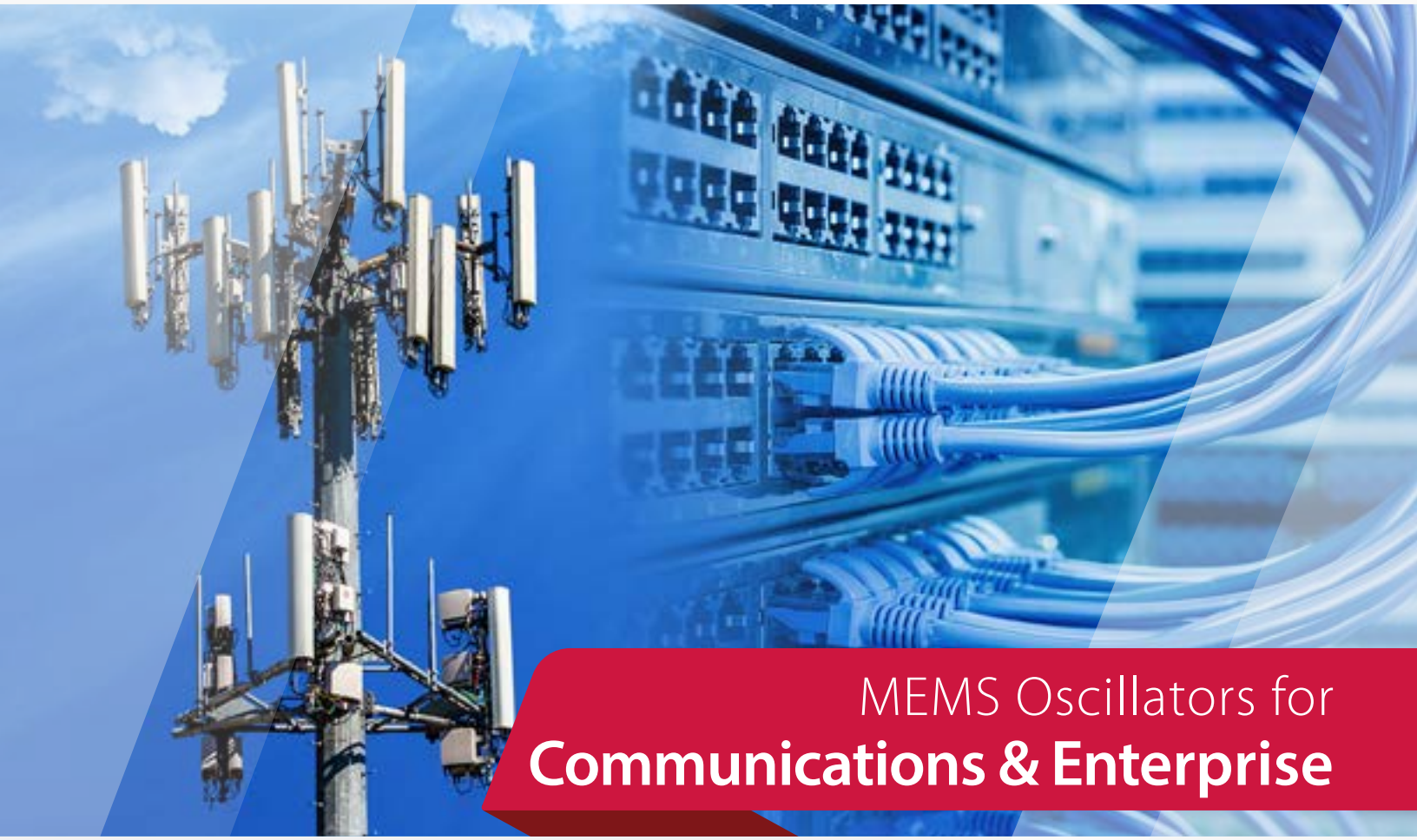
SiTime



MEMS Oscillators for **Communications & Enterprise**

- Extensive portfolio for synchronization and wireless
- Better performance in harsh environments
- No placement constraints, no shield needed, reduces manufacturing overhead
- Programmable, instant samples, shortest lead time
- Higher reliability

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

SyncE, IEEE 1588, 4G+/5G BACKHAUL

Emerald Platform OCXOs

SiT5711 | SiT5721

- Airflow and thermal shock resistant | 50 ppt/°C
- Most precise digital control | frequency steering with ±5 ppt resolution
- Stratum 3E compliant | best holdover in dynamic conditions
- Smallest in class | 9 mm x 7 mm x 6.3H mm

4G+/5G RADIOS, FRONTHAUL

Elite Platform Precision Super-TCXOs

SiT5356 | SiT5357 | SiT5358 | SiT5359

- High temperature operation | ±100 ppb up to 105°C
- Airflow and thermal shock resistant | 1 ppb/°C
- Vibration resistant | 0.1 ppb/g vibration
- Precise frequency steering | 5 ppt resolution

10/100/400G DATACOM

Differential Oscillators

SiT9365 | SiT9366 | SiT9367 | SiT9120 | SiT9121 | SiT9122

- Better stability at high temperature | ±10 ppm at 105°C
- Most flflexible | 1 to 725 MHz, ±10 to 50 ppm, LVPECL/LVDS/HCSL, 3 package options
- Better PSNR | 0.05 ps/mV, eliminates external regulators
- Low phase jitter | in small industry-standard packages

OPTICAL MODULES

Elite Platform Differential Oscillators

SiT9365 | SiT9366 | SiT9367

- Smallest size | 3.2 x 2.5 mm^2
- Better stability at high temperature | ±10 ppm at 105°C
- Better PSNR | 0.05 ps/mV, eliminates external regulators

PRECISION GNSS TIMING

Elite Platform Super-TCXOs

SiT5155 | SiT5156 | SiT5157

- High temperature operation | ±500 ppb up to 105°C
- Airflow and thermal shock resistant | 1 ppb/°C
- Better short-term stability | 1.5e-11 ADEV at 10s
- No activity dips | no micro jumps

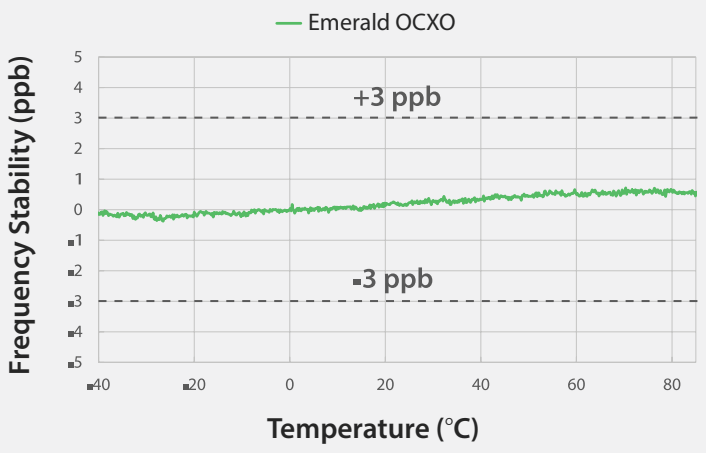
AUDIO/VIDEO & BROADCASTING

Elite Platform Differential Oscillators

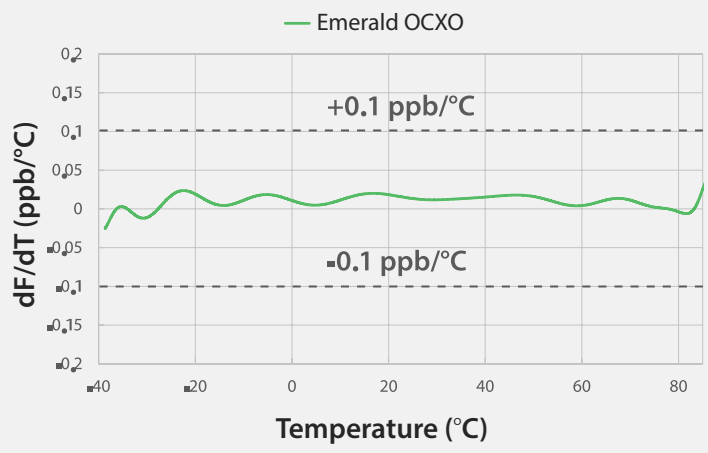
SiT9365 | SiT9366 | SiT9367

- In-system programmable | 1 to 725 MHz
- Precise frequency steering | 5 ppt resolution
- Best stability at high temperature | ±10 ppm at 105°C

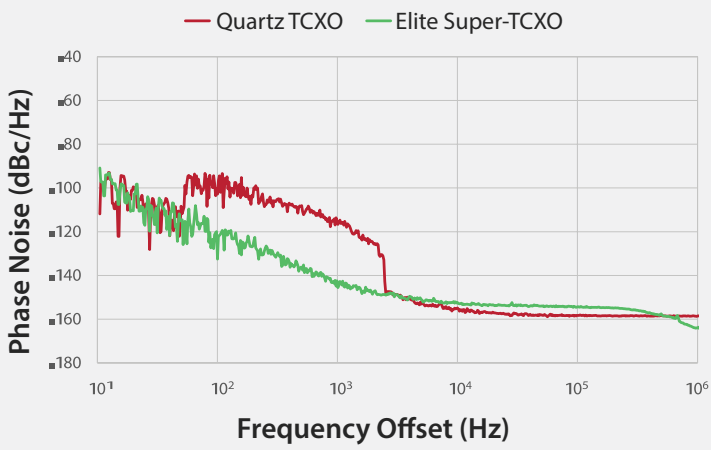
Better Stability



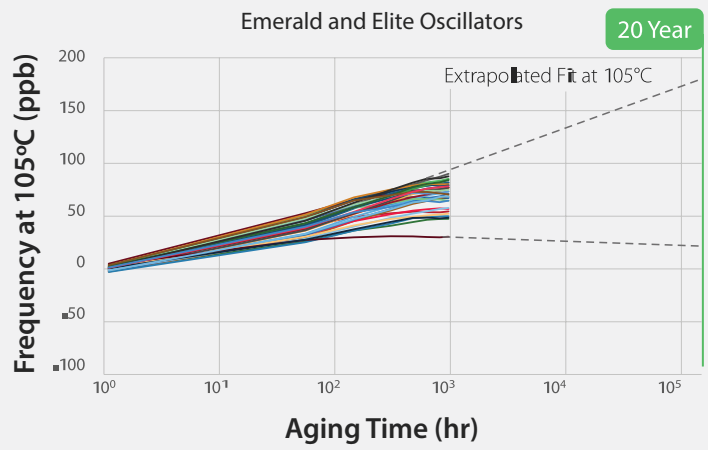
Better Frequency Slope



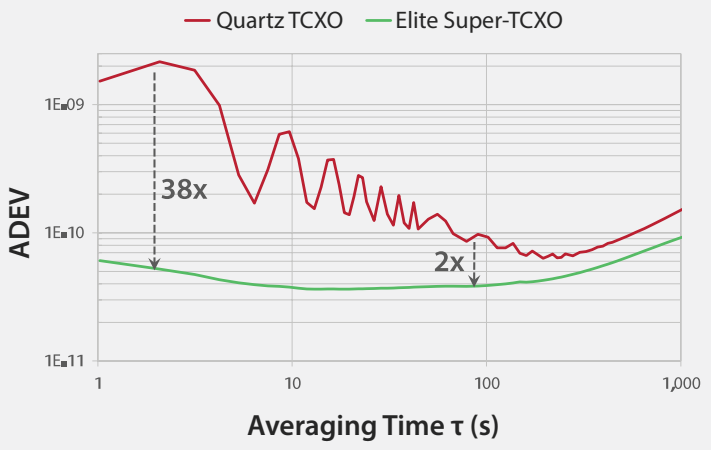
Better Vibration Resistance



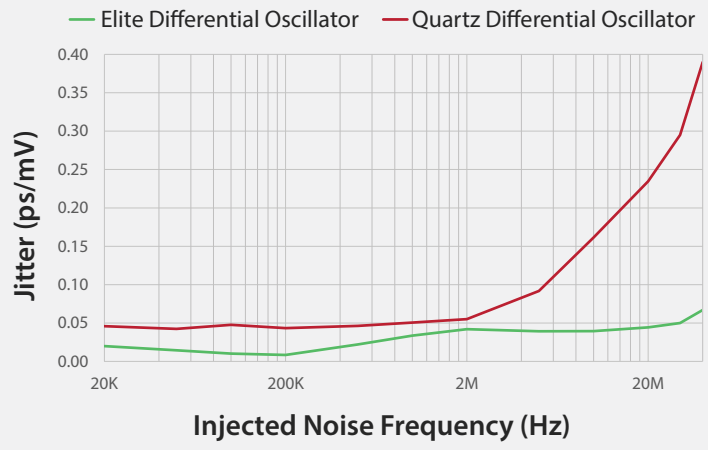
Better Aging



Better Allan Deviation



Better PSNR (Power Supply Noise Rejection)



SiTime

MEMS Oscillators for Communications-Enterprise

SiTime Base	Output	Frequency	Supply	Supply Current	Packages	Output	Features
OCXOs | Airflow and thermal shock resistant | Stratum 3E compliant– better holdover in dynamic conditions | Smallest in Class							
SiT5711*	1 MHz to 60 MHz	±0.005, ±0.008	3.3	212 mA (at 50°C in steady state)	9.0x7.0	LVCMOS, Clipped Sinewave	±0.05 ppb/°C dF/dT
SiT5721*							I2C digital control, ±5 ppt resolution
TCXO/VCTCXO/DCTCXOs | ±6.25 to ±3200 ppm pull range | 5 ppt resolution frequency control | Better reliability | 0.1 ppb/g (vibration sensitivity)							
SiT5358/59**	1 MHz to 220 MHz	±0.05, ±0.1	2.5, 2.8, 3.0, 3.3	40 to 45 mA	5.0x3.2	LVCMOS, Clipped Sinewave	I2C programmable, ±1 ppb/°C slope, -40 to +105°C
SiT5356/57**		±0.1, ±0.2, ±0.25					
SiT5155**	13 Standard Freq.	±0.5, ±1, ±2.5					
SiT5156/57**	1 MHz to 625 MHz						
SiT5021/22	1 MHz to 625 MHz	±5	2.5, 3.3, 2.25 to 3.63	55 to 69 mA	3.2x2.5, 5.0x3.2, 7.0x5.0	LVPECL, LVDS	0.6 ps rms phase jitter
SiT5000/01	1 MHz to 80 MHz		1.8, 2.5, 2.8, 3.0, 3.3	29 to 31 mA	2.5x2.0, 3.2x2.5, 5.0x3.2, 7.0x5.0	LVCMOS	0.5 ps rms phase jitter
LOW JITTER OSCILLATORS | Better reliability | 0.1 ppb/g (vibration sensitivity)							
SiT9365**	32 Standard Freq.	±10, ±20, ±25, ±50	2.5 to 3.3	76 to 84 mA	3.2x2.5, 5.0x3.2, 7.0x5.0	Low-swing LVPECL, LVPECL, LVDS, HCSL	0.21 ps rms phase jitter
SiT9366/67**	1 MHz to 725 MHz						
SiT9120	31 Standard Freq.		2.5 to 3.3	54 to 69 mA	3.2x2.5, 5.0x3.2, 7.0x5.0	LVPECL, LVDS	0.6 ps rms phase jitter, FP1
SiT9121/22	1 MHz to 625 MHz						
VCXOs | ±25 to ±3200 ppm pull range, <1% linearity | Better reliability | 0.1 ppb/g (vibration sensitivity)							
SiT3372/73**	1 MHz to 700 MHz	±15, ±25, ±30, ±50	2.5 to 3.3	76 to 84 mA	3.2x2.5, 5.0x3.2, 7.0x5.0	LVPECL, LVDS, HCLS	0.21 ps rms phase jitter
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	5.0x3.2	LVPECL, LVDS, HCSL	I2C programmable, 0.21 ps jitter
LOW-POWER OSCILLATORS | Better reliability | Pin-compatible footprints							
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)	2.0x1.6, 2.5x2.0, 3.2x2.5, 5.0x3.2, 7.0x5.0	LVCMOS	0.5 ps rms phase jitter, FP1
SiT8208/09	1 MHz to 220 MHz	±10, ±20, ±25, ±50	1.8, 2.5 to 3.3	2.9 to 36 mA (10 µA stby)	2.5x2.0, 3.2x2.5, 5.0x3.2, 7.0x5.0	LVCMOS	

[1]Field Programmable Oscillators – Always Available

ANY FREQUENCY

ANY VOLTAGE

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

*Emerald Platform products, **Elite Platform products
All products are available in -40 to +85°C unless otherwise noted.

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