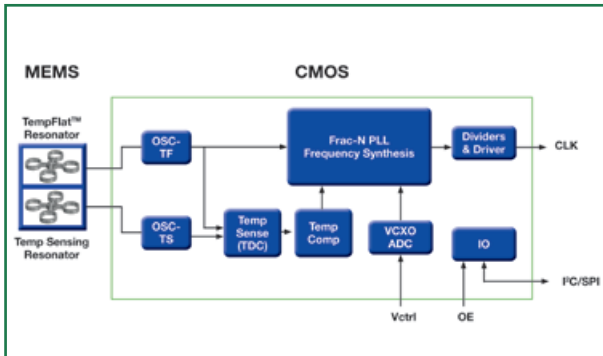


HIGHEST ACCURACY WITH MEMS OCZILLATOR USING ELITE™ – PRECISION SUPER-TCXO'S/VCTCXO



Elite is an innovative MEMS timing Platform for precision TCXOs, VCXOs, and low jitter oscillators.

This platform leverages SiTime's unique DualMEMS™ architecture with TurboCompensation™. Elite-based precision Super-TCXOs and oscillators are engineered to solve deep-rooted timing problems in high-performance applications such as telecom and networking equipment. Elite products deliver the most stable timing even in the presence of environmental stressors. With SiTime's Elite Platform, telecom and networking equipment can deliver the highest performance, best reliability and the highest quality of service under real life operating conditions. Elite products are ideal for networking, server, storage and telecom (NSST) equipment. Elite products are well suited for other high reliability applications such as test instrumentation,

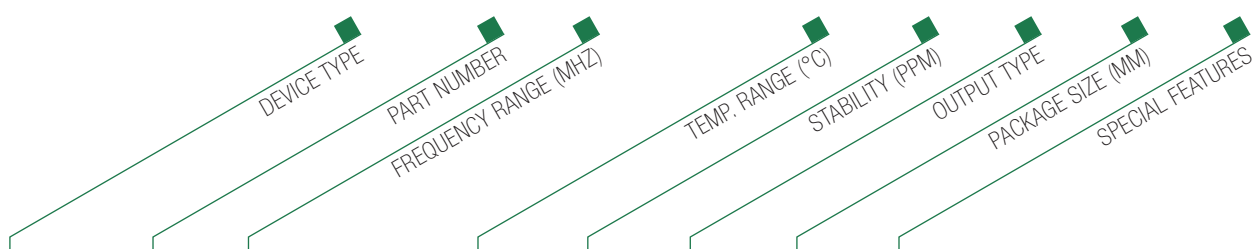
smart power grid, high precision GNSS/GPS positioning for automotive ADAS, avionics, surveying and precision farming.

How does Elite work?

The Elite Platform combines the world's most accurate temperature sensor, with a proprietary temperature compensation scheme and a low-noise frequency synthesizer to deliver exceptional dynamic stability, ultra-low jitter, wide frequency range and programmability.

Three key elements of the Elite Platform include:

- Robust, reliable, and proven TempFlat MEMS™ that eliminate activity dips and enables 30 x better vibration immunity than quartz
- DualMEMS temperature sensing with 100% thermal coupling that enables 40 x faster temperature tracking, ensuring the best performance under airflow and rapid temperature changes
- Highly integrated mixed - signal circuits with on-chip regulators, a TDC (temperature to digital converter) and a low-noise PLL that delivers 5 x better immunity to power-supply noise, 30 uK temperature resolution (10x better than quartz), support for any frequency between 1 and 700 MHz, and 0.23 ps jitter



KEY FEATURES AND SPECIFICATIONS OF ELITE PRODUCTS

Product Type	Part Number	Frequency Range (MHz)	Temp. Range (°C)	Stability (PPM)	Output Type	Package Size (mm)	Special Features
Precision Super-TCXO	SiT5356	1 to 60	-20 to 70	±0.1 to ±0.25	LVCMOS Clipped Sine Wave	SOIC-8: 6.0 x 4.9	-40 to +105°C 1 to 5 ppb/°C ΔF/ΔT 10 °C/min temp ramp 3e-11 ADEV, 1 0 sec stride No activity dips, No micro jumps 12C programm ability (option)
	SiT5357	60 to 220					
Super-TCXO	SiT5155	10 standard GNSS frea.	-40 to 85	±0.5 to ±2.5	LVCMOS Clipped Sine Wave	SOIC-8: 6.0 x 4.9	-40 to +105°C 1 to 5 ppb/°C ΔF/ΔT 10 °C/min temp ramp 3e-11 ADEV, 1 0 sec stride No activity dips, No micro jumps 12C programm ability (option)
	SiT5156	1 to 60					
Differential Oscillator	SiT5157	60 to 220	-40 to 105	±10 to ±50	LVPEC LVDS HCSL	QFN: 3.2 x 2.5 7.0 x 5.2	0.1 ps jitter, Ethernet mask 0.02 ps/mV PSNR
	SiT9365	32 standard freuencies	-20 to 70				
	SiT9366	10 to 220	-40 to 85				
Differential	SiT9367	220 to 700	-40 to 95	±10 to ±50	LVPEC LVDS HCSL	QFN: 3.2 x 2.5 7.0 x 5.2	±25 to ±3600 ppm pull range 0.1% pull range linearity 0.1 ppb/g vibration resistance
	SiT3372	10 to 220	-40 to 95				
Differential	vcxo	220 to 700					