Si Time



- Best-in-class performance in harsh environments
- Higher quality and reliability, AEC-Q100 compliant
- Programmable, instant samples, short lead time

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



Automotive Camera

±20 ppm over -55 to 125°C, Small 2016 footprint, EMI reduction up to 17 dB SiT8924/25 | SiT9025 Oscillator

Self-Driving Computer

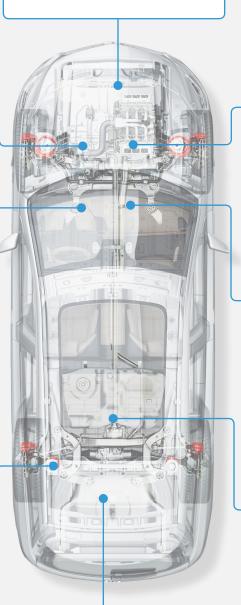
Best-in-class jitter, Up to 125°C temperature Any frequency from 1 to 725 MHz SiT9386/87 | SiT8924/25 | SiT2024/25 Oscillators

Infotainment

EMI reduction up to 17 dB, Reliable startup in cold temps, Higher reliability >1 B hours MTBF SiT9025 | SiT8924/25 | SiT2024/25 Oscillators

Active Suspension

More robust, Higher reliability >1 B hours MTBF, Leaded & wettable flank packages SiT8934/35 | SiT2024/25 Oscillators



Electrical Control Unit (ECU)

±20 ppm over -55 to 125°C, Any frequency from 1 to 150 MHz, Higher reliability >1 B hours MTBF SiT8924 | SiT9825 Oscillators

Wireless Charger

Short lead time even for custom frequencies, Flexible capacity for quick ramp up SiT8924 | SiT2024 | SiT9025 Oscillators

Precision GNSS

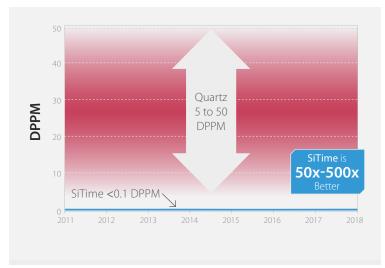
Maintains satellite lock under shock, vibration and thermal gradients SiT5186/87 | SiT5386/87 Super-TCXOs

Automotive Ethernet

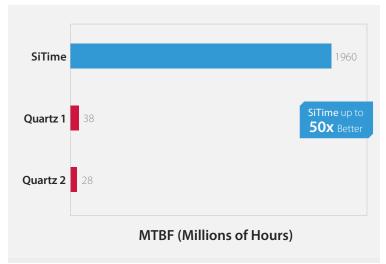
Best-in-class jitter, ±20 ppm over -40 to 105°C, Resistant to shock, vibration and thermal gradients SiT9386 | SiT9387 | SiT8924 Oscillators



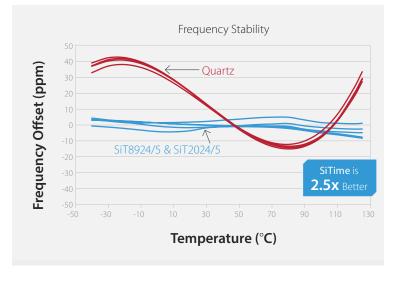
Higher Quality



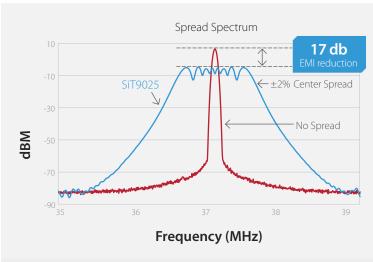
Higher Reliability



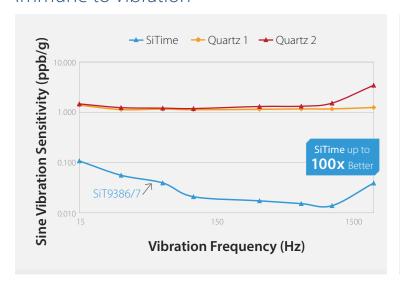
Tighter Stability



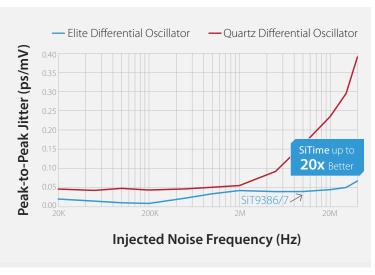
Better EMI Reduction



Immune to Vibration



Better Noise Rejection





AEC-Q100 MEMS Timing Solutions for Automotive

SiTime Base Part No.	Output Frequency	Temperature Range (°C)	Frequency Stability (ppm)	Supply Voltage (V)	Packages (mm x mm)	Output Logic	Features
QFN OSCILLATORS Pin-compatible QFN Short lead time even for custom frequencies							
SiT8924 SiT8925	1 to 110 MHz 115.2 to 137 MHz	-40 to +85, -40 to +105, -40 to +125, -55 to +125	±20, ±25, ±30, ±50	1.8, 2.5 to 3.3	QFN: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5, 5.0 x 3.2 7.0 x 5.0	LVCMOS	8 output drive strength options, Field Programmable
SiT8934 SiT8935	1 to 150 MHz	-40 to +85, -40 to +105, -40 to +125, -55 to +125	±20, ±25, ±30, ±50	1.8, 2.5 to 3.3	QFN with wettable flank: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5, 5.0 x 3.2 7.0 x 5.0	LVCMOS	8 output drive strength options, Field Programmable
SOT23 OSCILLATORS Best solder-joint reliability Short lead time even for custom frequencies							
SiT2024 SiT2025	1 to 110 MHz 115.2 to 137 MHz	-40 to +85, -40 to +105, -40 to +125, -55 to +125	±20, ±25, ±30, ±50	1.8, 2.5 to 3.3	SOT23-5: 2.9 x 2.8	LVCMOS	8 output drive strength options, Field Programmable
DIEEEDENTI	AL OSCILLATORS		lido fraguancy rang				
DIFFERENTIAL OSCILLATORS Best-in-class jitter Wide frequency range							
SiT9386 SiT9387	1 to 220 MHz 220 to 725 MHz	-40 to +85, -40 to +105	±10, ±20, ±25, ±50	2.5, 2.8, 3.0, 3.3	QFN with wettable flank: 3.2 x 2.5, 7.0 x 5.0	LVPECL, LVDS, HCSL	0.23 ps rms phase jitter
EMI REDUCTION OSCILLATORS Most flexible EMI reduction options Low cycle-cycle jitter							
SiT9025	1 to 150 MHz	-40 to +85, -40 to +105, -40 to +125, -55 to +125	±20, ±25, ±50	1.8, 2.5 to 3.3	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
TCXO/VCTCXO/DCTCXO ±6.25 to ±3200 ppm pull range 5 ppt resolution frequency control							
SiT5186 SiT5187 SiT5386	1 to 220 MHz	-40 to +85, -40 to +105	±0.5, ±1, ±2.5 ±0.1, ±0.2, ±0.25 ^[1]	2.5, 2.8, 3.0, 3.3	SMD: 5.0 x 3.2	LVCMOS, Clipped Sinewave	I2C programmable, 1 ppb/°C slope, Field Programmable
SiT5387							
32 KHZ OSC	ILLATORS Small	size Low power Reli	able startup in cold	temperature			
SiT1680	32.768 kHz	-40 to 85, -40 to 105	±3, ±5, ±10, ±20, +100, +150	1.5 to 3.63	CSP: 1.5 x 0.8	LVCMOS, NanoDrive™	Smallest XO/TCXO

^[1] Contact SiTime for ±50 ppb

Field Programmable Oscillators – Always Available







-40 to 105

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



 $\pm 100, \pm 150$