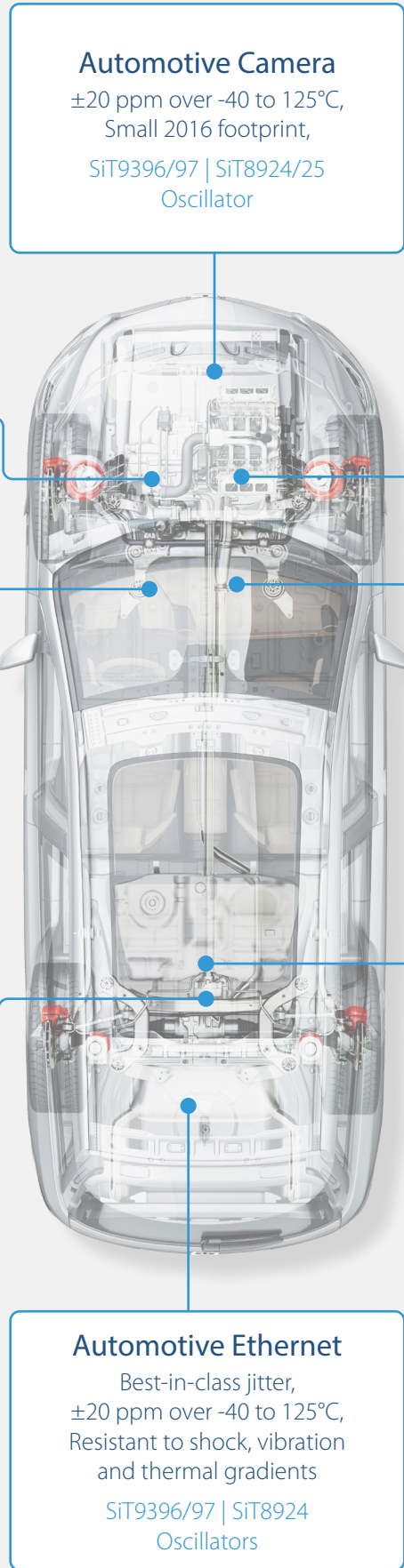




MEMS Timing Solutions for **Automotive**

- Best-in-class performance in harsh environments
- Purpose built for ADAS and in-vehicle safety applications
- Higher quality and reliability than traditional alternatives
- AEC-Q100 qualified, IATF16949 certified, PPAP available

The heartbeat
of ADAS™



Automotive Camera

±20 ppm over -40 to 125°C,
Small 2016 footprint,
SiT9396/97 | SiT8924/25
Oscillator

ADAS Computer

Best-in-class jitter,
Higher reliability >2.2 B hours MTBF,
Up to 125°C temperature
SiT9396/97 | SiT8924/25 |
SiT2024/25 Oscillators

Electrical Control Unit (ECU)

±20 ppm over -40 to 125°C,
Reliable startup in cold temps,
Higher reliability >2.2 B hours MTBF
SiT8924/25 | SiT9396/97
Oscillators

Infotainment / Cluster

EMI reduction up to 17 dB,
Reliable startup in cold temps,
Higher reliability >2.2 B hours MTBF
SiT9396/97 | SiT9025 | SiT8924/25 |
SiT2024/25 Oscillators

Wireless Charger

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

V2X Connectivity

Shock and vibration resilient,
Stability over temp, -40 to 125°C,
Higher reliability >2.2 B hours MTBF
SiT5186/87 | SiT5386/87
Super-TCXOs

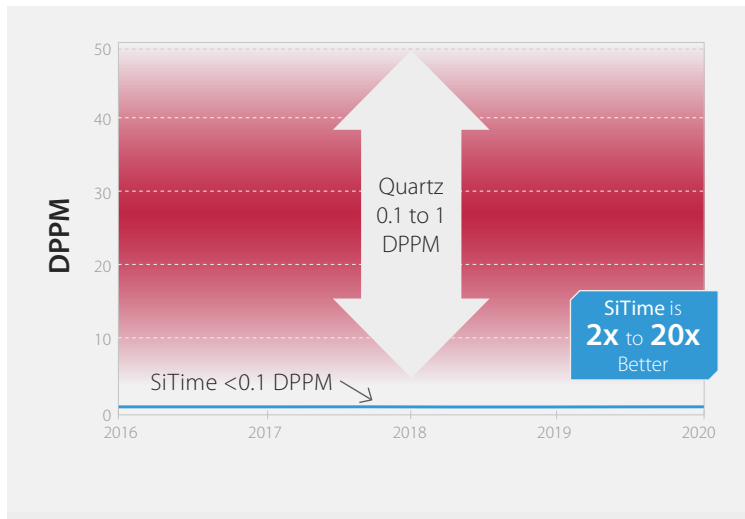
Precision GNSS

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

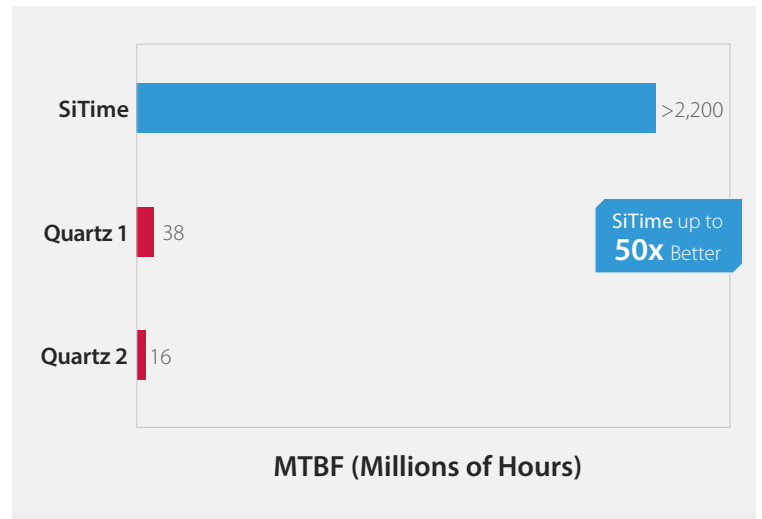
Automotive Ethernet

Best-in-class jitter,
±20 ppm over -40 to 125°C,
Resistant to shock, vibration
and thermal gradients
SiT9396/97 | SiT8924
Oscillators

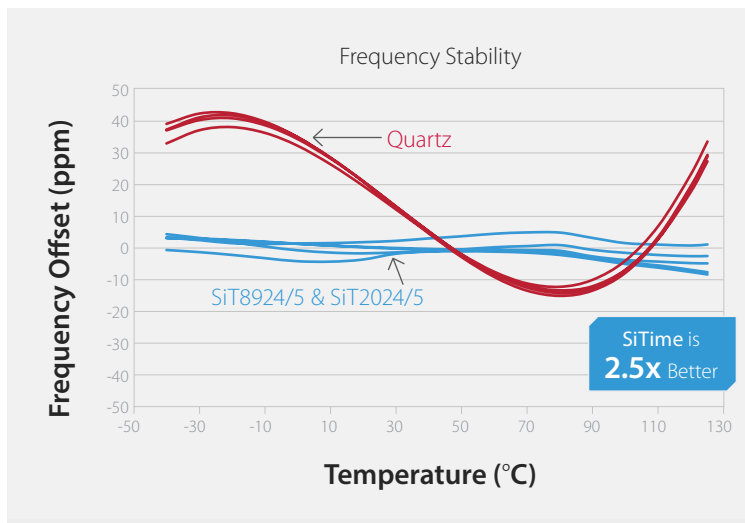
Higher Quality



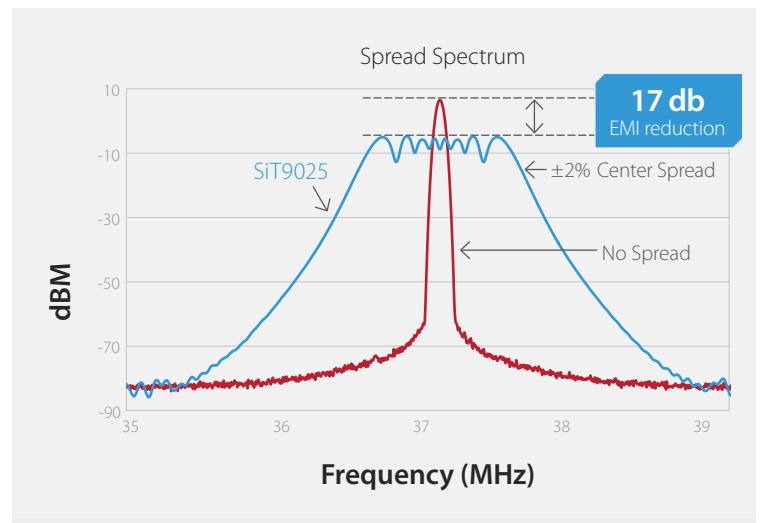
Higher Reliability



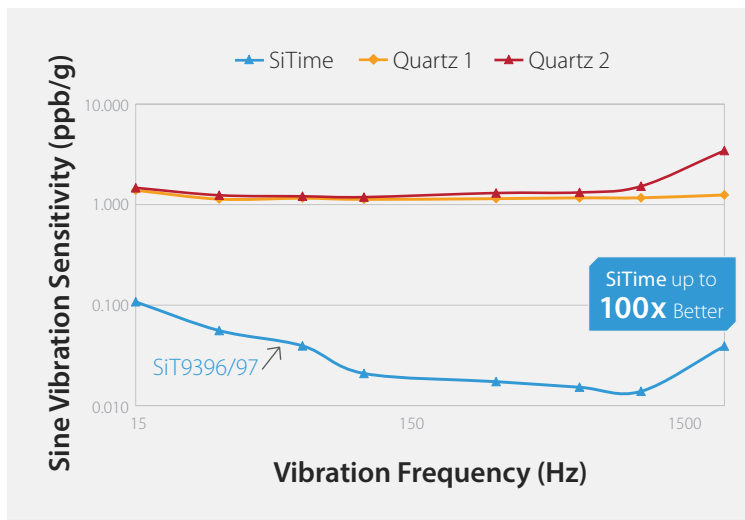
Tighter Stability



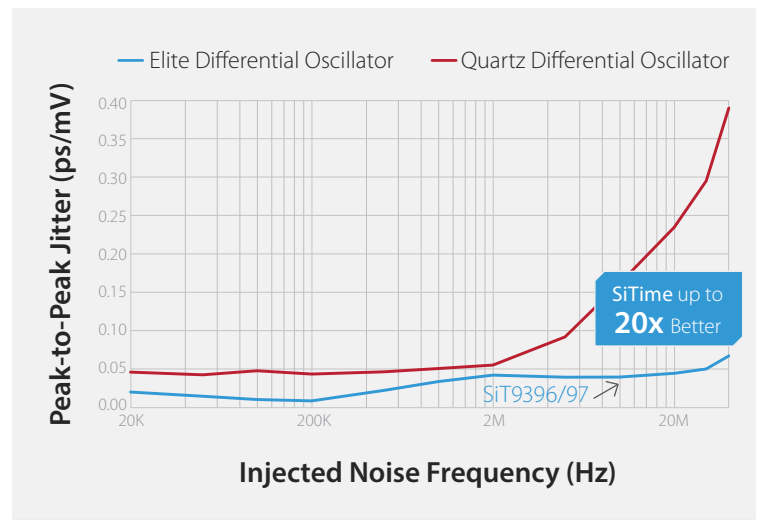
Better EMI Reduction



Immune to Vibration



Better Noise Rejection



SiTime Base Part No.	Output Frequency	Temperature Range (°C)	Frequency Stability (ppm)	Supply Voltage (V)	Packages (mm x mm)	Output Logic	Features
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QFN OSCILLATORS | Pin-compatible QFN | Short lead time even for custom frequencies

SiT8924	1 to 110 MHz	-40 to +85, -40 to +105, -40 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
SiT8925	115.2 to 137 MHz						

SOT23 OSCILLATORS | Best solder-joint reliability | Short lead time even for custom frequencies

SiT2024	1 to 110 MHz	-40 to +85, -40 to +105, -40 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
SiT2025	115.2 to 137 MHz						

DIFFERENTIAL OSCILLATORS | Best-in-class jitter | Wide frequency range

SiT9396	1 to 220 MHz	-40 to +125	±20, ±25, ±30, ±50	1.8, 2.5, 3.3	QFN: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5	LVPECL, LVDS, HCSSL, Low-power HCSSL, Flex-Swing	Ultra-low jitter, small size, 125°C
SiT9397	220 to 920 MHz						

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	±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
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TCXO/VCTCXO/DCTCXO | ±6.25 to ±3200 ppm pull range | 5 ppt resolution frequency control

SiT5186	1 to 220 MHz	-40 to +85, -40 to +105	±0.5, ±1, ±2.5	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
SiT5187			±0.1, ±0.2, ±0.25				
SiT5386							
SiT5387							

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 customer parameters
- Easy to convert design program parts to production

