Si Time



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 | SiT1625 | SiT8924/25 Oscillators

ADAS Computer

Best-in-class jitter, Higher reliability >2.2 B hours MTBF, Up to 125°C temperature

SiT9396/97 | SiT1625 | SiT8924/25 | SiT2024/25 Oscillators

Infotainment / Cluster

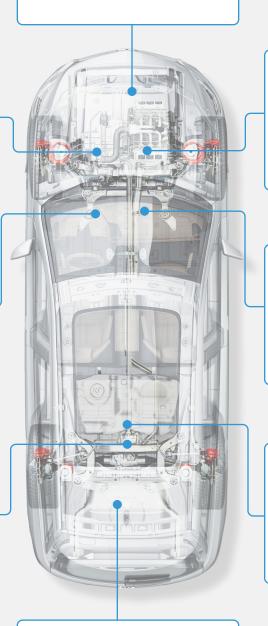
EMI reduction up to 17 dB, Reliable startup in cold temps, Higher reliability >2.2 B hours MTBF

SiT9396/97 | SiT9025 | SiT1625 | SiT8924/25 | SiT2024/25 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



Electrical Control Unit (ECU)

±20 ppm over -40 to 125°C, Reliable startup in cold temps, Higher reliability >2.2 B hours MTBF

SiT1625 | SiT8924/25 | SiT9396/97 Oscillators

Wireless Charger

Short lead time even for custom frequencies,
Flexible capacity for quick ramp up

SiT1625 | 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 125°C, Resistant to shock, vibration and thermal gradients

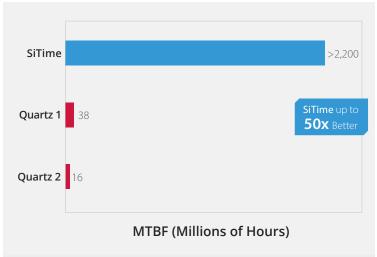
SiT9396/97 | SiT1625 | SiT8924 Oscillators



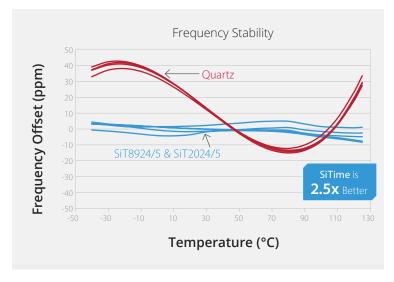
Higher Quality



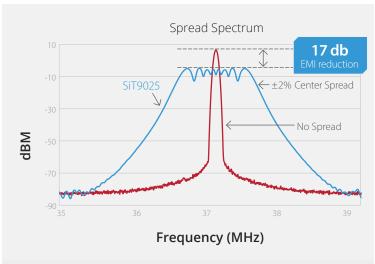
Higher Reliability



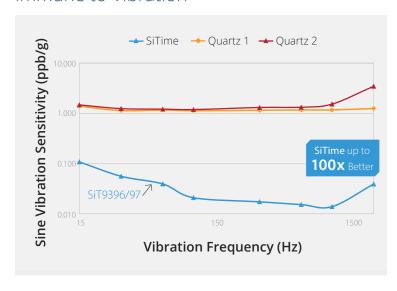
Tighter Stability



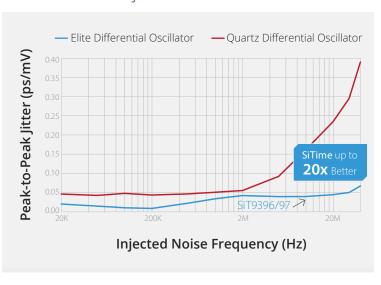
Better EMI Reduction



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							
SiT1625	44 standard frequencies	-40 to +85, -40 to +105, -40 to +125	±25, ±30, ±50	1.5, 1.8, 2.5 and 3.3	QFN: 1.6 x 1.2, 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5	LVCMOS	500 fs RMS jitter, 2.3 mA typ. current consumption
SiT8924 ————————————————————————————————————	1 to 110 MHz		±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		8 output drive strength options, Field Programmable
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, HCSL, Low-power HCSL, FlexSwing	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
TCXO/VCTCXO/DCTCXO ±6.25 to ±3200 ppm pull range 5 ppt resolution frequency control							
SiT5186 SiT5187	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
SiT5386 SiT5387	1 10 220 1911 12		±0.1, ±0.2, ±0.25				

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







