



Silicon MEMS
Timing Solutions

Solving
your most
difficult timing
problems



COMMUNICATIONS & ENTERPRISE

4x better frequency slope ($\Delta F/\Delta T$)
10x higher reliability and environmental resilience
Clock-System-on-a-Chip—smaller, simpler design



MOBILE & IOT

35% smaller footprint
Maintains stability under 10°C/s temperature ramp
30x better quality and reliability



AUTOMOTIVE

Best stability over -55 to +125°C
50x to 500x better quality, 50x better reliability
20x better shock and g-sensitivity performance



INDUSTRIAL

Programmable, qualify once—multiple parts
30x better quality and reliability
20x better shock survivability, 4x better vibration



AEROSPACE & DEFENSE

20x better shock survivability, 4x better vibration
50x better g-sensitivity
Wide operating temperature range -55 to +125°C



CONSUMER

Immediate availability
Virtually unlimited capacity
Programmable 1 Hz to 725 MHz

Mobile & IoT		Industrial & Consumer		Automotive AEC-Q100		Communications & Enterprise					Aerospace & Defense MIL-PRF-55310	
µPower 32 kHz TCXO 1.2 mm²	µPower TCXO 1.2 mm²	Low Power Oscillators	High Temp Oscillators	Spread Spectrum Oscillators	High Temp Oscillators	Low Jitter Oscillators	TCXO/ VCTCXO/ DCTCXO	OCXO	Network Synch / Jitter Cleaner	TCXO/ VCTCXO/ DCTCXO	High Temp Oscillators	
SiT1552 ±5, 10, 20 ppm	SiT1576* ±5 ppm 1 Hz-2.5 MHz 2.5 ns Jitter**	SiT1602 3.75-77.76 MHz 3.1-4.9 mA	SiT1618 7.3728-48 MHz -40 to +125°C	SiT9025* 1-150 MHz -55 to +125°C 30 dB Reduction	SiT8924/5* 1-137 MHz -55 to +125°C	SiT9501* 25-644.5313 MHz 70 fs Jitter** FlexSwing	SiT5358/9* 1-220 MHz ±0.05-0.1 ppm -40 to +105°C	SiT5711* 1-60 MHz ±5, ±8 ppb -40 to +85°C	SiT95145 4 inputs 10 outputs 1 clk domain	SiT5348/9* 1-220 MHz ±0.05-0.1 ppm -40 to +105°C 0.004 ppb/g	SiT8944/5* 1-137 MHz -55 to +125°C	
SiT1566/8 ±3, 5 ppm 2.5 ns Jitter**	µPower Oscillators 1.2 mm²	SiT8008/9* 1-137 MHz 3.1-5.9 mA	SiT8918/9* 1-137 MHz -40 to +125°C	Low Jitter Oscillators	SiT2024/5* 1-137 MHz -55 to +125°C SOT23-5	SiT9365 25-325 MHz 0.21 ps Jitter**	SiT5356/7* 1-220 MHz ±0.1-0.25 ppm -40 to +105°C	DCOCXO	SiT95147 4 inputs 8 outputs 4 clk domains	SiT5346/7* 1-220 MHz ±0.1-0.25 ppm -40 to +105°C 0.004 ppb/g	SiT2044/5* 1-137 MHz -55 to +125°C SOT23-5	
SiT1580* ±5 ppm 2.5 ns Jitter**	SiT1569* 1 Hz-462.5 kHz ±50 ppm	SiT2001/2* 1-137 MHz SOT23-5	SiT8920/1* 1-137 MHz -55 to +125°C	SiT9386/7* 1-725 MHz -40 to +105°C	TCXO/ VCTCXO/ DCTCXO	SiT9366/7* 1-725 MHz 0.21 ps Jitter**	SiT5155/6/7* 1-220 MHz ±0.5-2.5 ppm -40 to +105°C	SiT5721* 1-60 MHz ±5, ±8 ppb -40 to +85°C Program via I ² C	SiT95148 4 inputs 11 outputs 4 clk domains	SiT5146/7* 1-220 MHz ±0.5-2.5 ppm -40 to +105°C 0.004 ppb/g	SiT9346/7* 1-725 MHz -40 to +105°C	
µPower 32 kHz Oscillators	SiT1579* 1 Hz-2.5 MHz ±50 ppm	Spread Spectrum Oscillators	SiT2018/9* 1-137 MHz -40 to +125°C SOT23-5	SiT5186/7* 1-220 MHz ±0.5-2.5 ppm -40 to +105°C	TCXO/ VCTCXO/ DCTCXO	SiT9375 25-644.5313 MHz 200 fs Jitter** FlexSwing	SiT5021/2* 1-625 MHz ±5 ppm	DCXO In-System Programmable	Clock Generator	Spread Spectrum Oscillators	DCXO In-System Programmable	
SiT1532/3 1508 & 2012	SiT1581* 1 Hz-2.5 MHz ±30, 50 ppm 2.5 ns Jitter**	SiT9005* 1-141 MHz 30dB Reduction	SiT2020/1* 1-137 MHz -55 to +125°C SOT23-5	SiT5386/7* 1-220 MHz ±0.1-0.25 ppm -40 to +105°C	TCXO/ VCTCXO/ DCTCXO	SiT9120 25-212.5 MHz 0.6 ps Jitter**	VCXO	SiT3907* 1-220 MHz	SiT95141 4 inputs 10 outputs 1 clk domain	SiT9045* 1-150 MHz 30 dB Reduction	SiT3541/2* I ² C/SPI 1-725 MHz 0.21 ps Jitter**	
SiT1572 ±50 ppm 1508 2.5 ns Jitter**	SiT1534 1 Hz-32 kHz 2012 Option	SiT9003* 1-110 MHz Low Power	µPower Oscillators			SiT9121/2* 1-625 MHz 0.6 ps Jitter**		SiT3521/2* I ² C/SPI 1-725 MHz 0.21 ps Jitter**	SiT95143 4 inputs 11 outputs 4 clk domains		VCXO	
SiT1573 ±100 ppm 1508	SiT8021* 1-26 MHz 60-280 µA	SiT9002* 1-220 MHz	SiT1630 16.384 kHz & 32.768 kHz -40 to +105°C 2012, SOT23			SiT8208/9* 1-220 MHz 0.5 ps Jitter**	SiT3807/8/9* 1-220 MHz	SiT3372/3* 1-725 MHz ±10-50 ppm 0.21 ps Jitter**			SiT3342/3* 1-725 MHz ±10 to 50 ppm 0.21 ps Jitter**	

*Any frequency, programmable within range out to 6 decimals
 **Integrated RMS phase jitter; See datasheet for integration range
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- NanoDrive™ programmable ultra-low-power output
- LVPECL, CML, HCSSL, LVDS or LVCMOS output
- Pin compatible with quartz devices
- LVPECL, LVDS, HCSSL output
- LVCMOS output
- ▶ Available as field programmable with Time Machine II