



Silicon MEMS  
Timing Solutions

Solving  
your most  
difficult timing  
problems



### COMMUNICATIONS & ENTERPRISE

4x better frequency slope ( $\Delta F/\Delta T$ )  
30x better quality and reliability  
Better performance under shock and vibration



### 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	
<b>µPower 32 kHz TCXO 1.2 mm<sup>2</sup></b>	<b>µPower TCXO 1.2 mm<sup>2</sup></b>	<b>Low Power Oscillators</b>	<b>High Temp Oscillators</b>	<b>Spread Spectrum Oscillators</b>	<b>High Temp Oscillators</b>	<b>Low Jitter Oscillators</b>	<b>DCXO In-System Programmable</b>	<b>TCXO/ VCTCXO/ DCTCXO</b>	<b>OCXO</b>	<b>TCXO/ VCTCXO/ DCTCXO</b>	<b>High Temp Oscillators</b>
<b>SiT1552</b> ±5, 10, 20 ppm	<b>SiT1576*</b> ±5 ppm 1 Hz-2.5 MHz 2.5 ns Jitter**	<b>SiT1602</b> 3.75-77.76 MHz 3.1-4.9 mA	<b>SiT1618</b> 7.3728-48 MHz -40 to +125°C	<b>SiT9025*</b> 1-150 MHz 55 to +125°C 30dB Reduction	<b>SiT8924/5*</b> 1-137 MHz -55 to +125°C	<b>SiT8208/9*</b> 1-220 MHz 0.5 ps Jitter**	<b>SiT3907*</b> 1-220 MHz	<b>SiT5358/9*</b> 1-220 MHz ±0.05-0.1 ppm -40 to +105°C	<b>SiT5711/2</b> 1-220 MHz ±5, ±8 ppb -40 to +85°C	<b>SiT5348/9*</b> 1-220 MHz ±0.05-0.1 ppm -40 to +105°C 0.004 ppb/g	<b>SiT8944/5*</b> 1-137 MHz -55 to +125°C
<b>SiT1566/8</b> ±3, 5 ppm 2.5 ns Jitter**	<b>µPower Oscillators 1.2 mm<sup>2</sup></b>	<b>SiT8008/9*</b> 1-137 MHz 3.1-5.9 mA	<b>SiT8918/9*</b> 1-137 MHz -40 to +125°C	<b>Low Jitter Oscillators</b>	<b>SiT2024/5*</b> 1-137 MHz -55 to +125°C SOT23-5	<b>SiT9120</b> 25-212.5 MHz 0.6 ps Jitter**	<b>SiT3521/2*</b> I <sup>2</sup> C/SPI 1-725 MHz 0.21 ps Jitter**	<b>SiT5356/7*</b> 1-220 MHz ±0.1-0.25 ppm -40 to +105°C	<b>DCOCXO</b>	<b>SiT5346/7*</b> 1-220 MHz ±0.1-0.25 ppm -40 to +105°C 0.004 ppb/g	<b>SiT2044/5*</b> 1-137 MHz -55 to +125°C SOT23-5
<b>SiT1580*</b> ±3 ppm 2.5 ns Jitter**	<b>SiT1569*</b> 1 Hz-462.5 kHz ±50 ppm	<b>SiT2001/2*</b> 1-137 MHz SOT23-5	<b>SiT8920/1*</b> 1-137 MHz -55 to +125°C	<b>SiT9386/7*</b> 1-725 MHz -40 to +105°C	<b>TCXO/ VCTCXO/ DCTCXO</b>	<b>SiT9121/2*</b> 1-625 MHz 0.6 ps Jitter**	<b>VCXO</b>	<b>SiT5155</b> 1-40 MHz ±0.5 ppm -40 to +105°C	<b>SiT5721/2</b> 1-220 MHz ±5, ±8 ppb -40 to +85°C Program via I <sup>2</sup> C	<b>SiT5146/7*</b> 1-220 MHz ±0.5-2.5 ppm -40 to +105°C 0.004 ppb/g	<b>SiT9346/7*</b> 1-725 MHz -40 to +105°C
<b>µPower 32 kHz Oscillators</b>	<b>SiT1579*</b> 1 Hz-2.5 MHz ±50 ppm	<b>Spread Spectrum Oscillators</b>	<b>SiT2018/9*</b> 1-137 MHz -40 to +125°C SOT23-5	<b>SiT5186/7*</b> 1-220 MHz ±0.5-2.5 ppm -40 to +105°C	<b>SiT9365</b> 25-325 MHz 0.21 ps Jitter**	<b>SiT3807</b> 1.5-45 MHz	<b>SiT5156/7*</b> 1-220 MHz ±0.5-2.5 ppm -40 to +105°C		<b>Spread Spectrum Oscillators</b>	<b>DCXO In-System Programmable</b>	
<b>SiT1532/3</b> 1508 & 2012	<b>SiT1581*</b> 1 Hz-2.5 MHz ±30, 50 ppm 2.5 ns Jitter**	<b>SiT9005*</b> 1-141 MHz 30dB Reduction	<b>SiT2020/1*</b> 1-137 MHz -55 to +125°C SOT23-5	<b>SiT5386/7*</b> 1-220 MHz ±0.1-0.25 ppm 40 to +105°C	<b>SiT9366/7*</b> 1-725 MHz 0.21 ps Jitter**	<b>SiT3808/9*</b> 1-220 MHz	<b>SiT5021/2*</b> 1-625 MHz ±5 ppm			<b>SiT9045*</b> 1-150 MHz 30dB Reduction	<b>SiT3541/2*</b> I <sup>2</sup> C/SPI 1-725 MHz 0.21 ps Jitter**
<b>SiT1572</b> ±50 ppm 1508 2.5 ns Jitter**	<b>SiT1534</b> 1 Hz-32 kHz 2012 Option	<b>SiT9003*</b> 1-110 MHz Low Power	<b>µPower Oscillators</b>			<b>SiT3372/3*</b> 1-725 MHz ±10-50 ppm 0.21 ps Jitter**					<b>VCXO</b>
<b>SiT1573</b> ±100 ppm 1508	<b>SiT8021*</b> 1-26 MHz 60-280 µA	<b>SiT9002*</b> 1-220 MHz	<b>SiT1630</b> 16.384 kHz & 32.768 kHz -40 to +105°C 2012, SOT23								<b>SiT3342/3*</b> 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/LVDS/HCSL output
- LVCMOS output
- Pin compatible with quartz devices
- ▶ Available as field programmable with Time Machine II