



MOBILE



CONSUMER



CLOUD-BIG DATA



DATA-COM-  
INFRASTRUCTURE



INDUSTRIAL



AUTOMOTIVE

- Drop-in replacement for quartz
- Smallest size
- 2 to 4 week production lead-time
- 1 Hz to 625 MHz frequency range
- $\pm 1.5$  PPM
- -55 to +125°C operating temperature
- 0.3 ps<sub>rms</sub> jitter
- AEC-Q100
- 20x more reliable



INSTANT  
SAMPLES



GREEN  
SOLUTIONS



LIFETIME  
WARRANTY

# MEMS Oscillators and Clock Generators

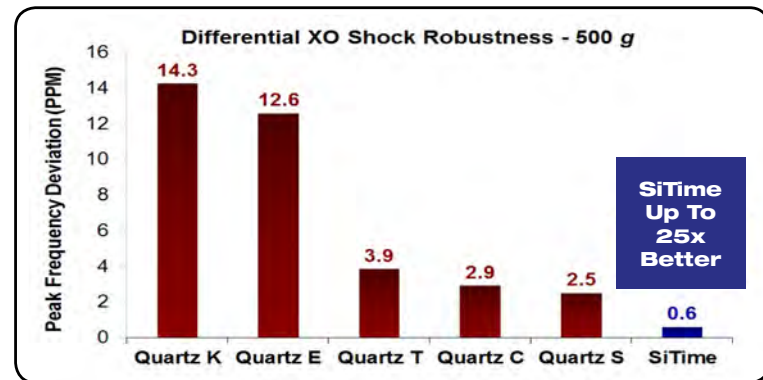
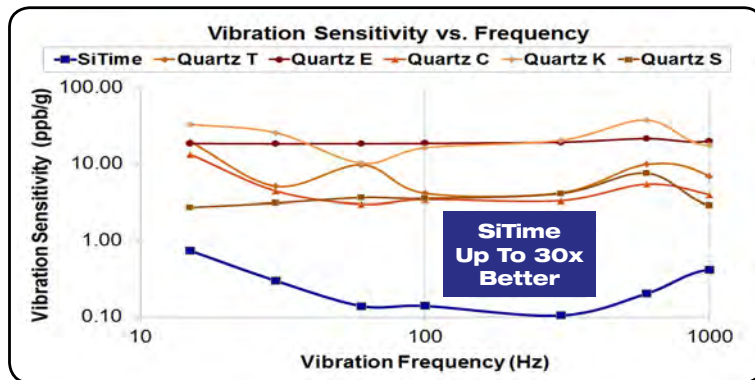
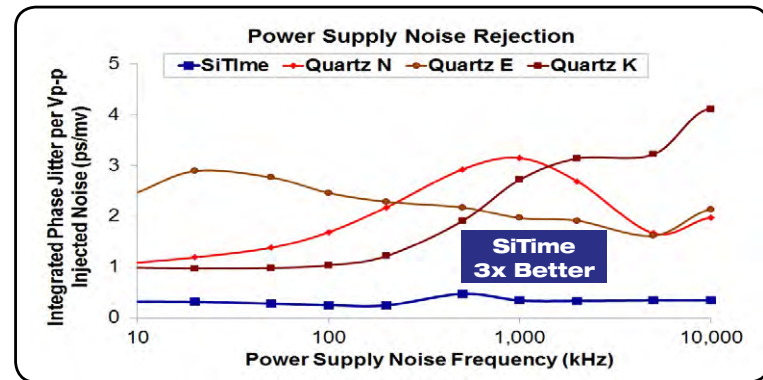
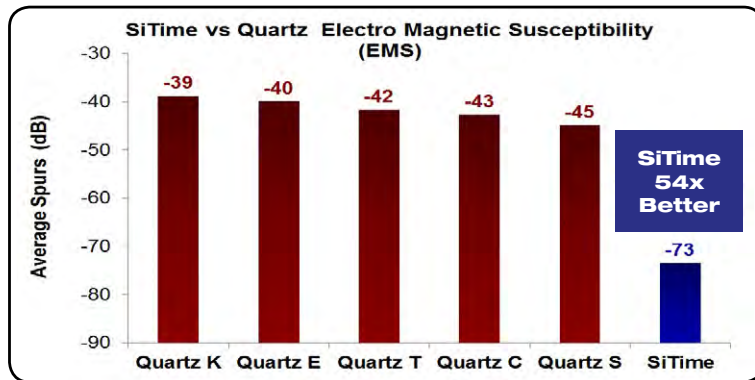
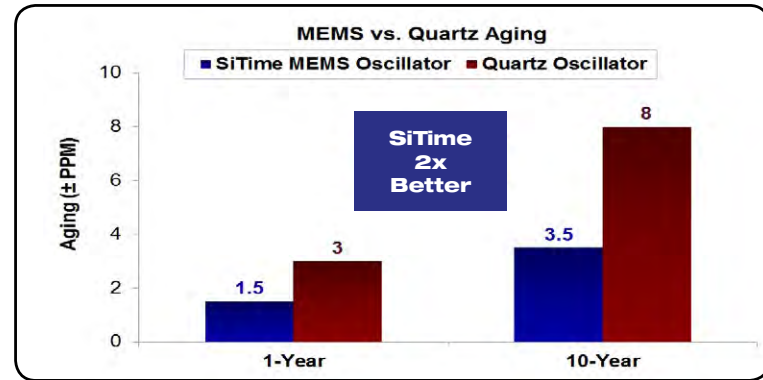
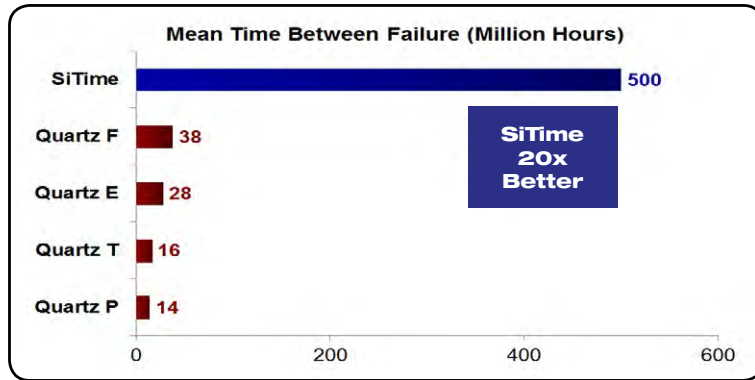
## Product Portfolio

32 kHz XO and XTAL Replacement	32 kHz TCXO	Ultra-Performance XO	Low Power XO	+125°C High Temp XO	AEC-Q100 Automotive Clocks	VCXO	(VC) TCXO	Spread Spectrum XO	DCXO	Clock Generator
<b>SiT1532</b> 32.768 kHz 1508 CSP 1.2 to 3.63V	<b>SiT1552</b> 32.768 kHz 1.5 to 3.63V	<b>SiT8208/9</b> 1-220 MHz	<b>SiT1602</b> 3.75-75 MHz	<b>SiT1618</b> 7.3728-48 MHz -40 to +125°C	<b>SiT8924</b> 1-110 MHz -40 to +125°C	<b>SiT3807</b> 1.5-45 MHz	<b>SiT5000</b> 10-45 MHz ±1.5 to 5 PPM	<b>SiT9001</b> 1-200 MHz	<b>SiT3907</b> 1-220 MHz	<b>SiT9201</b> 1-110 MHz
<b>SiT1533</b> 32.768 kHz 2012 SMD 1.2 to 3.63V	<b>SiT1553</b> 32.768 kHz 2.7 to 4.5V	<b>SiT8225</b> 25 MHz 1/10 GbE	<b>SiT8008/9</b> 1-137 MHz 3.5-7 mA	<b>SiT8918/9</b> 1-137 MHz -40 to +125°C	<b>SiT8925</b> 115.20-137 MHz -40 to +125°C	<b>SiT3808/9</b> 1-220 MHz	<b>SiT5001/2</b> 1-220 MHz ±1.5 to 5 PPM	<b>SiT9003</b> Low Power 1-110 MHz	<b>SiT3921/2</b> 1-625 MHz	<b>SiT2002</b> 115-137 MHz
<b>SiT1534</b> 1 Hz-32.768 kHz 1.2 to 3.63V		<b>SiT8256</b> 156.25 MHz 1/10 GbE	<b>SiT8003XT</b> 0.25mm thin 1-110 MHz	<b>SiT8920/1</b> 1-137 MHz -55 to +125°C	<b>SiT2024/5</b> 1-137 MHz -40 to +125°C SOT23-5	<b>SiT3821/2</b> 1-625 MHz	<b>SiT5021/2</b> 1-625 MHz ±2.5 to 5 PPM	<b>SiT9002</b> 1-220 MHz	<b>SiT3509</b> 1-220 MHz 9 selectable frequencies	<b>High Temp Clock Generator</b> <b>SiT2018/9</b> 1-137 MHz -40 to +125°C
<b>SiT1542</b> 32.768 kHz 1508 CSP 2.7 to 4.5V		<b>SiT9120</b> 25-212.5 MHz								
<b>SiT1543</b> 32.768 kHz 2012 SMD 2.7 to 4.5V		<b>SiT9121/2</b> 1-625 MHz								
<b>SiT1544</b> 1 Hz-32.768 kHz 2.7 to 4.5V		<b>SiT9156</b> 156.25 MHz 10/40 GbE								
<b>SiT1630</b> 32.768 kHz Oscillator									<b>SiT3519</b> 1-220 MHz 9 selectable frequencies	<b>SiT2020/1</b> 1-137 MHz -55 to +125°C

- NanoDrive™ output for lowest power
- LVCMOS output
- LVDS/LVPECL output
- Available as field programmable for use with Time Machine II Programmer
- Pin-to-pin compatible with quartz devices

# MEMS Oscillators Outperform Quartz

Learn about the resilience and reliability of SiTime oscillators at [www.sitime.com/support/application-notes](http://www.sitime.com/support/application-notes).



	Target Markets	Devices <sup>1,2</sup>	Key Features	Output Frequency <sup>3</sup> (MHz)	Frequency Stability (PPM)	Output Logic	Supply Current (mA Typ)	Packages (mm x mm)	Additional Features and Options			
									Rise/Fall Time Control	Output Enable	Standby	Field Programmable <sup>4</sup>
Oscillators	<b>Low-Jitter Oscillators - XO</b>											
	Networking, Telecom, Server and Storage	SiT8208	<ul style="list-style-type: none"> <li>Low phase jitter: 0.6 ps<sub>rms</sub></li> <li>Best frequency stability</li> </ul>	1 to 80	±10, ±20, ±25, ±50	LVCMOS LVTTTL	29 10 µA (Stby)	2.5 x 2.0 3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	✓	✓	✓
		SiT8209		80 to 220					✓	✓	✓	✓
		SiT8225	<ul style="list-style-type: none"> <li>Lowest phase jitter: 0.3 ps<sub>rms</sub></li> <li>Best frequency stability</li> <li>Positive frequency shift</li> </ul>	25 to 25.0012 (std. freq.)	±10, ±20, ±25, ±50	LVCMOS LVTTTL	29 10 µA (Stby)	2.5 x 2.0 3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	✓	✓	✓
		SiT8256		156.25 to 156.261718 (std. freq.)					✓	✓	✓	✓
	<b>Differential Low Jitter Oscillators - XO</b>											
	Networking, Telecom, Server, Storage, 10G, Fibre Channel, GigE, PCIe	SiT9120	<ul style="list-style-type: none"> <li>Low phase jitter: 0.6 ps<sub>rms</sub></li> <li>Best frequency stability</li> </ul>	25 to 212.5 (std. freq.)	±10, ±25, ±50	LVPECL, LVDS	55 to 69	3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	✓	✓	✓
		SiT9121		1 to 220					±10, ±20, ±25, ±50	✓	✓	✓
		SiT9122	220 to 625	✓	✓					✓	✓	
		SiT9156	<ul style="list-style-type: none"> <li>Lowest phase jitter: 0.3 ps<sub>rms</sub></li> <li>Best frequency stability</li> <li>For 1/10 GbE applications</li> <li>Positive frequency shift</li> </ul>	156.25 to 161.1328 (std. freq.)	±10, ±25, ±50				5.0 x 3.2 7.0 x 5.0	✓	✓	-
	<b>Low Power Oscillators - XO</b>											
	NEW!	Portable, Handheld Consumer and Computing	SiT1602	<ul style="list-style-type: none"> <li>Low power</li> <li>Most cost effective XO</li> <li>Continuous voltage option</li> <li>Ultra small footprint</li> </ul>	3.57 to 77.76 (std. freq.)	±20, ±25, ±50	LVCMOS LVTTTL	3.4 0.6 µA (Stby)	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	✓	✓	✓
NEW!	Computing, Consumer, Industrial	SiT8008	<ul style="list-style-type: none"> <li>General purpose low power</li> <li>Continuous voltage option</li> <li>Ultra small footprint</li> </ul>	1 to 110	±20, ±25, ±50	LVCMOS LVTTTL	3.4 0.6 µA (Stby)	✓		✓	✓	✓
		SiT8009	<ul style="list-style-type: none"> <li>High frequency low power</li> <li>Continuous voltage option</li> </ul>	115 to 137	±20, ±25, ±50	LVCMOS LVTTTL	5.5 1 µA (Stby)	✓		✓	✓	✓
<b>Spread-Spectrum Oscillators - SSXO</b>												
SSXOs	Spread Spectrum for General Computing, Memory, µC, Portable and Handheld	SiT9001	<ul style="list-style-type: none"> <li>Up to ±0.25 to ±1.0% center spread and -0.5 to -2.0% down spread modulation</li> </ul>	1 to 200	±50, ±100	LVCMOS LVTTTL	20 30 µA (Stby)	2.5 x 2.0 3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	✓	✓	✓
		SiT9003		1 to 110			3.7 1.2 µA (Stby)					
<b>Differential Spread-Spectrum Oscillators - SSXO</b>												
	Computing, Servers with Low EMI	SiT9002	<ul style="list-style-type: none"> <li>±0.25 to ±1.0% center spread and -0.5 to -4.0% down spread modulation</li> </ul>	1 to 220	±25, ±50	LVPECL, LVDS, HCSL, CML	48 to 75	5.0 x 3.2 7.0 x 5.0	✓	✓	✓	✓

Note 1: Available in Ext. Commercial (-20 to +70°C) or Industrial (-40 to +85°C) temp range.

Note 2: Single-ended devices available with supply voltages of 1.8V, programmable from 2.5 to 3.3V. Differential devices available with programmable supply voltages from 2.5 to 3.3V.

Note 3: All devices have programmable frequency with 6 decimals of accuracy unless noted as "std. freq." (standard frequencies).

Note 4: Field Programmable devices are available for use with the SiTime Time Machine II MEMS Oscillator Programmer.



LIFETIME  
WARRANTY

**SiTime**<sup>™</sup>

Automotive & High-Temp Oscillators	Target Markets	Devices <sup>1</sup>	Key Features	Output Frequency <sup>2</sup> (MHz)	Frequency Stability (PPM)	Output Logic	Supply Current (mA Typ)	Packages (mm x mm)	Additional Features and Options			
									Rise/Fall Time Control	Output Enable	Standby	Field Programmable <sup>3</sup>
<b>High Temperature Oscillators - XO</b>												
NEW! Industrial, Medical, Automotive	SiT1618	<ul style="list-style-type: none"> <li>High temperature (-40 to +125°C)</li> <li>Widest frequency range</li> <li>Ultra small footprint</li> <li>0.1 PPB/G vibration sensitivity</li> </ul>	7.3728 to 48 (std. freq.)	±20, ±25, ±30, ±50	LVCMOS LVTTTL	3.6 1 µA (Stby)	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	✓	✓	✓	✓	
	SiT8918		1 to 110			3.6 1 µA (Stby)						
	SiT8919		115.20 to 137			5.4 1 µA (Stby)						
NEW! Extreme Temperature, Ruggedized Equipment	SiT8920	<ul style="list-style-type: none"> <li>High temperature (-55 to +125°C)</li> <li>Widest frequency range</li> <li>Ultra small footprint</li> <li>0.1 PPB/G vibration sensitivity</li> </ul>	1 to 110	±20, ±25, ±30, ±50	LVCMOS LVTTTL	3.6 1 µA (Stby)	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	✓	✓	✓	✓	
	SiT8921		115.20 to 137			5.4 1 µA (Stby)						
<b>Automotive Oscillators - XO</b>												
NEW! Automotive	SiT8924	<ul style="list-style-type: none"> <li>AEC-Q100 Grade 1 (-40 to +125°C)</li> <li>Widest frequency range</li> <li>0.1 PPB/G vibration sensitivity</li> <li>Rise/fall time control for EMI reduction</li> </ul>	1 to 110	±20, ±25, ±30, ±50	LVCMOS LVTTTL	3.6	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	✓	✓	-	-	
	SiT8925		115.20 to 137			5.4						

Automotive & High-Temp Clock Gen	Target Markets	Devices <sup>1</sup>	Key Features	Output Frequency <sup>2</sup> (MHz)	Frequency Stability (PPM)	Number of Output Channels	Supply Current (mA Typ)	Packages (mm x mm)	Additional Features and Options			
									Rise/Fall Time Control	Output Enable	Standby	Field Programmable <sup>3</sup>
<b>High Temperature Clock Generators</b>												
NEW! Industrial, Medical and High Temp Applications	SiT2018	<ul style="list-style-type: none"> <li>Wide temp. range (-40 to +125°C)</li> <li>Best board level reliability</li> <li>0.1 PPB/G vibration sensitivity</li> <li>Continuous voltage option</li> </ul>	1 to 110	±20, ±25, ±30, ±50	1 LVCMOS	3.6 1 µA (Stby)	2.9 x 2.8 SOT23-5	✓	✓	✓	-	
	SiT2019		115.20 to 137			5.4 1 µA (Stby)						
NEW! Extreme Temperature, Ruggedized Equipment	SiT2020	<ul style="list-style-type: none"> <li>Widest temp. range (-55 to +125°C)</li> <li>Best board level reliability</li> <li>0.1 PPB/G vibration sensitivity</li> <li>Continuous voltage option</li> </ul>	1 to 110	±20, ±25, ±30, ±50	1 LVCMOS	3.6 1 µA (Stby)	2.9 x 2.8 SOT23-5	✓	✓	✓	-	
	SiT2021		115.20 to 137			5.4 1 µA (Stby)						
<b>Automotive Clock Generators</b>												
NEW! Automotive	SiT2024	<ul style="list-style-type: none"> <li>AEC-Q100 Grade 1 (-40 to +125°C)</li> <li>Best board level reliability</li> <li>0.1 PPB/G vibration sensitivity</li> <li>Rise/fall time control for EMI reduction</li> </ul>	1 to 110	±20, ±25, ±30, ±50	1 LVCMOS	3.6	2.9 x 2.8 SOT23-5	✓	✓	-	-	
	SiT2025		115.20 to 137			5.4						



Note 1: Available with supply voltages of 1.8V, programmable from 2.5 to 3.3V.  
 Note 2: All devices have programmable frequency with 6 decimals of accuracy unless noted as "std. freq." (standard frequencies).  
 Note 3: Field Programmable devices are available for use with the SiTime Time Machine II MEMS Oscillator Programmer.



	Target Markets	Devices <sup>1</sup>	Key Features	Output Frequency	Room Temp Frequency (PPM)	Over Temp Frequency (PPM)	Supply Current ( $\mu$ A Typ)	Supply Voltage (V)	Packages (mm x mm)	Output	
										NanoDrive (V)	LVC MOS (V)
1 Hz to 32 kHz	<b>1 Hz to 32 kHz Oscillators for XTAL Replacement</b>										
	NEW! Smartphones, Tablets and e-Readers, Health and Wellness Monitors, Sport Fitness Watches, Wireless Keypads and Mouse Devices	SiT1532	<ul style="list-style-type: none"> <li>World's smallest 32kHz XO</li> <li>1.2mm<sup>2</sup> smallest footprint</li> <li>&lt;1<math>\mu</math>A ultra-low power</li> <li>2x better stability than quartz</li> <li>XTAL compatible interface</li> <li>Factory programmable NanoDrive output for lowest power</li> <li>Low voltage SiT153x for unregulated power supplies and high voltage SiT154x for unregulated battery supplies</li> </ul>	32.768 kHz	$\pm 20$	$\pm 75$ (Comm) $\pm 100$ (Ind)	0.9	1.2 to 3.63	1.5 x 0.8 CSP	0.2 to 1.2	$\checkmark$
		SiT1533		32.768 kHz					2.0 x 1.2 SMD		
		SiT1534		1 Hz to 32.768 kHz					1.5 x 0.8 CSP 2.0 x 1.2		
		Q1+4 SiT1542		32.768 kHz					1.5 x 0.8 CSP		
		Q1+4 SiT1543		32.768 kHz					2.0 x 1.2 SMD		
		Q1+4 SiT1544		1 Hz to 32.768 kHz					1.5 x 0.8 CSP		
<b>32 kHz Oscillators</b>											
NEW! Portable Electronics, Laptops, Tablets, Industrial and High-Reliability Applications, Portable Medical	SiT1630	<ul style="list-style-type: none"> <li>Smallest XO package</li> <li>1.1 <math>\mu</math>A (typ) ultra-low power</li> </ul>	32.768 kHz	$\pm 20$	$\pm 75$ (Comm) $\pm 100$ (Ind)	1.1	1.5 to 3.63	2.0 x 1.2 SMD	-	$\checkmark$	
<b>32 kHz Temperature-Compensated Oscillators - TCXO</b>											
NEW! Smart Meters, Health-Wellness Monitors, Precision RTC Reference Clock, Low Power Connectivity	SiT1552 Q1+4 SiT1553	<ul style="list-style-type: none"> <li>3 PPM over temp stability</li> <li>2.5 PPM max 10-year aging</li> <li>World's 1st 32 kHz TCXO in CSP</li> <li>&lt;1<math>\mu</math>A ultra-low power</li> <li>XTAL compatible interface</li> <li>Factory programmable NanoDrive output for lowest power</li> </ul>	32.768 kHz	-	$\pm 3, \pm 5, \pm 10, \pm 20$	0.9	1.5 to 3.63 2.7 to 4.5	1.5 x 0.8 CSP 2.0 x 1.2 SMD SOT23-5 <sup>2</sup>	0.2 to 1.2	$\checkmark$	

	Target Markets	Devices <sup>3,4</sup>	Key Features	Output Frequency <sup>5</sup> (MHz)	Frequency Stability (PPM)	Number of Output Channels	Supply Current (mA Typ)	Packages (mm x mm)	Additional Features and Options		
									Rise/Fall Time Control	Output Enable	Standby
Clock Gen	<b>Clock Generator</b>										
	NEW! Consumer, Networking Industrial	SiT9201 SiT2002	<ul style="list-style-type: none"> <li>Most cost effective</li> <li>Integrated resonator, no need for external XTAL/CLKIN</li> <li>Low power</li> </ul>	1 to 110 115 to 137	$\pm 20, \pm 25, \pm 50$	1 LVC MOS	3.6 5.4	SOT23-5 2.9 x 2.8	$\checkmark$	$\checkmark$	$\checkmark$

Note 1: Available in Ext. Commercial (-10 to +70°C) or Industrial (-40 to +85°C) temperature range.

Note 2: Contact factory for SOT23-5 availability.

Note 3: Available in Ext. Commercial (-20 to +70°C) or Industrial (-40 to +85°C) temperature range.

Note 4: Available with supply voltages of 1.8V, programmable from 2.5 to 3.3V.

Note 5: Clock generators have programmable frequency with 6 decimals of accuracy.



	Target Markets	Devices <sup>1,2</sup>	Key Features	Output Frequency <sup>3</sup> (MHz)	Frequency Stability (PPM)	Output Logic	Supply Current (mA Typ)	Packages (mm x mm)	Additional Features and Options			
									Rise/Fall Time Control	Output Enable	Standby	Field Programmable <sup>4</sup>
VCXOs	<b>Temperature-Compensated Oscillators - (VC)TCXO</b>											
	Networking, Telecom, Server and Storage, Wireless, GPS, Satellite, ATE, Broadcast Video, Base Stations, Media Gateways, 3G/4G USB Cards	SiT5000	• Fixed frequency for lowest price • ±12.5 pull-range	10 to 40 (std. freq.)	±1.5, ±2, ±2.5, ±5	LVCMOS LVTTTL	32 10 µA (Stby)	2.5 x 2.0 3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	✓	✓	-
		SiT5001	• Wide pull-range ±12.5 to ±50 PPM	1 to 80	±1.5, ±2, ±2.5, ±5							
		SiT5002	• Low Phase Jitter: 0.6 ps <sub>rms</sub>	80 to 220	±1.5, ±2, ±2.5, ±5							
	<b>Differential Temperature-Compensated Oscillators - (VC)TCXO</b>											
	<b>NEW!</b> Networking, GPS, Telecom, Server, ATE, Satellite, Broadcast Video, Wireless, Base Stations	SiT5021	• Wide pull-range ±12.5 to ±50 PPM	1 to 220	±2.5, ±5	LVPECL LVDS	55 to 69	3.2 x 3.2 5.0 x 3.2 7.0 x 5.0	✓	✓	-	-
SiT5022		• Low Phase Jitter: 0.6 ps <sub>rms</sub>	220 to 625									
VCXOs	<b>Voltage-Controlled Oscillators - VCXO</b>											
	Networking, Telecom, Medical, ATE, Video, xDSL, Embedded Systems	SiT3807	• Fixed frequency for lowest price • Pull-range from ±50 to ±200 PPM • 1% pull-range linearity	1,544 to 49,152 (std. freq.)	±25, ±50	LVCMOS LVTTTL	32 10 µA (Stby)	2.5 x 2.0 3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	✓	✓	✓
		SiT3808	• Widest pull-range ±25 to ±1600 PPM	1 to 80	±10, ±25, ±50							
		SiT3809	• 1% pull-range linearity	80 to 220	±10, ±25, ±50							
	<b>Differential Voltage-Controlled Oscillators - VCXO</b>											
	Networking, Telecom, Medical, ATE, Video, xDSL, Embedded Systems	SiT3821	• Best stability	1 to 220	±10, ±25, ±50	LVPECL LVDS	55 to 69	5.0 x 3.2 7.0 x 5.0	✓	✓	-	✓
SiT3822		• Widest pull-range ±25 to ±1600 PPM • 1% pull-range linearity	220 to 625									
DCXOs	<b>Digitally-Controlled Oscillators - DCXO</b>											
	Networking and Telecom	SiT3907	• Single-pin, serial programmable	1 to 220	±10, ±25, ±50	LVCMOS LVTTTL	32	3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	✓	-	-
			• Widest pull-range ±25 to ±1600 PPM • 0.1% pull-range linearity									
	<b>Differential Digitally-Controlled Oscillators - DCXO</b>											
Networking and Telecom	SiT3921	• Single-pin, serial programmable	1 to 220	±10, ±25, ±50	LVPECL LVDS	55 to 69	5.0 x 3.2 7.0 x 5.0	✓	✓	-	-	
	SiT3922	• Widest pull-range ±25 to ±1600 PPM • 0.1% pull-range linearity	220 to 625									
SCXOs	<b>Serially-Configured Oscillators - SCXO</b>											
	<b>NEW!</b> Consumer	SiT3509	• 9 user selectable output frequencies • Serially programmable thru single pin	1 to 220	±25, ±50	LVCMOS LVTTTL	30	2.5 x 2.0 3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	-	-	-
	<b>Serially-Configured Digitally-Controlled Oscillators - SCDCXO</b>											
<b>NEW!</b> Consumer	SiT3519	• 9 user selectable output frequencies • Serially programmable thru single pin • Digitally controlled pull range to ±1600 PPM	1 to 220	±25, ±50	LVCMOS LVTTTL	30	2.5 x 2.0 3.2 x 2.5 5.0 x 3.2 7.0 x 5.0	✓	-	-	-	

Note 1: Available in Ext. Commercial (-20 to +70°C) or Industrial (-40 to +85°C) temperature range.

Note 2: Single-ended devices available with supply voltages of 1.8V, programmable from 2.5 to 3.3V. Differential devices available with programmable supply voltages from 2.5 to 3.3V.

Note 3: All devices have programmable frequency with 6 decimals of accuracy unless noted as "std. freq." (standard frequencies).

Note 4: Field Programmable devices are available for use with the SiTime Time Machine II MEMS Oscillator Programmer.



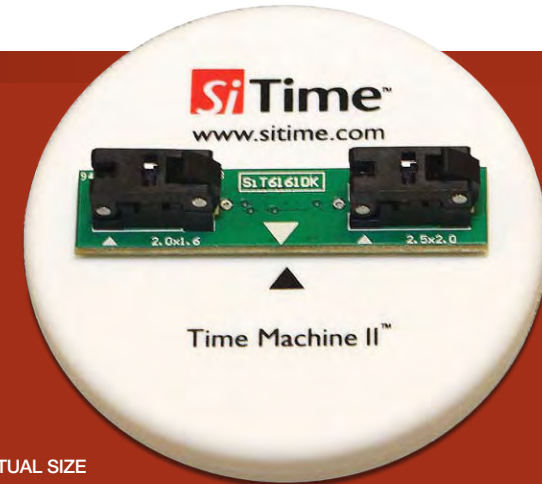
LIFETIME  
WARRANTY

**SiTime**<sup>™</sup>

## Instant Oscillators

Complete easy-to-use programming kit for SiTime's field programmable oscillators

- Any Frequency
- Any Voltage
- Any Stability



ACTUAL SIZE

### Configure Devices to Your Exact Specification

<b>Customizable Frequency</b>	1 to 625 MHz, 6 decimals of accuracy
<b>Frequency Stability</b>	±20 to ±50 PPM
<b>Supply Voltage</b>	1.8V, 2.5 to 3.3V
<b>Pull Range</b>	±25 to ±1600 ppm in VCXO and DCXO
<b>Drive Strength Control</b>	1 to 11 ns rise/fall time for low to high output drive
<b>Spread Spectrum</b>	±0.25 to ±2.0% center spread and -0.5 to -4.0% down spread
<b>Additional Options</b>	
<b>Packages</b>	2016, 2520, 3225, 5032, 7050 plastic packages
<b>Temperature Range</b>	-20 to +70°C, -40 to +85°C, -40 to +105°C, -40 to +125°C, or -55 to +125°C
<b>Output Signaling</b>	Differential: LVPECL, LVDS or HCSL, Single-ended: LVCMOS

### Don't waste time searching and waiting for oscillators

- Create instant drop-in replacements for legacy quartz oscillators
- Develop prototypes fast with always-in-stock field programmable devices
- Optimize system performance with custom frequencies

### Get more information

- Field Programmable Oscillators: [www.sitime.com/fp-devices](http://www.sitime.com/fp-devices)
- Programmer and Adapter Cards: [www.sitime.com/time-machine](http://www.sitime.com/time-machine)