

µPower 32 kHz TCXO 1.2 mm <sup>2</sup>	µPower TCXO 1.2 mm <sup>2</sup>	Low Power Oscillators	High Temp Oscillators	AEC-Q100 Automotive Oscillators	Spread Spectrum Oscillators	Low Jitter Oscillators	VCXO	TCXO/ VCTCXO/ DCTCXO	DCXO In-System Programmable
<b>SiT1552</b> ±10, 13, 22 ppm	<b>SiT1576*</b> ±5 ppm 1 Hz-2 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>SiT8924/5*</b> 1-137 MHz -55 to +125°C	<b>SiT9005*</b> 17 dB Reduction 1-141 MHz	<b>SiT8208/9*</b> 1-220 MHz 0.5 ps Jitter*	<b>SiT3807</b> 1.5-45 MHz	<b>SiT5358/9*</b> <i>Elite Platform</i> 1-220 MHz ±0.05 ppm 0 to +70°C	<b>SiT3907*</b> 1-220 MHz
<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>SiT2024/5*</b> 1-137 MHz -55 to +125°C SOT23-5	<b>SiT9003*</b> Low Power 1-110 MHz	<b>SiT9120</b> 25-212.5 MHz 0.6 ps Jitter**	<b>SiT3808/9*</b> 1-220 MHz	<b>SiT5356/7*</b> <i>Elite Platform</i> 1-220 MHz ±0.1 to 0.25 ppm -40 to +105°C	<b>SiT3521/2*</b> I2C/SPI 1-725 MHz 0.21 ps Jitter**
<b>µPower 32 kHz Oscillators</b>	<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>SiT9025*</b> 1-150 MHz 30 dB Reduction	<b>SiT9002*</b> 1-220 MHz	<b>SiT9121/2*</b> 1-625 MHz 0.6 ps Jitter**	<b>SiT3372/3*</b> <i>Elite Platform</i> 1-725 MHz ±10 to 50 ppm 0.21 ps Jitter**	<b>SiT5155</b> <i>Elite Platform</i> 1-40 MHz ±0.5 ppm -40 to +105°C	
<b>SiT1532/3</b> 1508 & 2012	<b>SiT1579*</b> 1 Hz-2 MHz ±50 ppm		<b>SiT2018/9*</b> 1-137 MHz -40 to +125°C SOT23-5	<b>SiT9386/7*</b> <i>Elite Platform</i> 1-725 MHz -40 to +105°C		<b>SiT9365</b> <i>Elite Platform</i> 25-325 MHz 0.21 ps Jitter**		<b>SiT5156/7*</b> <i>Elite Platform</i> 1-220 MHz ±0.5 to 2.5 ppm -40 to +105°C	
<b>SiT1572</b> ±50 ppm 1508	<b>SiT1534</b> 1 Hz-32 kHz 2012 Option		<b>SiT2020/1*</b> 1-137 MHz -55 to +125°C SOT23-5			<b>SiT9366/7*</b> <i>Elite Platform</i> 1-725 MHz 0.21 ps Jitter**		<b>SiT5021/2*</b> 1-625 MHz ±5 ppm	
<b>SiT1630</b> -40 to +105°C 2012, SOT23	<b>SiT8021*</b> 1-26 MHz 60-280 µA								



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

\* Any frequency programmable within the frequency range with 6 decimals of accuracy  
 \*\* Integrated rms phase jitter, see datasheet for integration range  
 Elite Platform families use DualMEMS™ technology for best dynamic performance

SiTime Base Part No.	Output Frequency	Frequency Stability (ppm)	Supply Volt. (V)	Supply Current (Typical)	Packages (mm x mm)	Output Logic	Features
<b>µPower 32 kHz Solutions &amp; TCXOs</b>   Replace XTAL, XO, or TCXO   Drive two or more loads   Smallest size							
SiT1532/33	32.768 kHz	75, 100, 250 over temp	1.2 to 3.63	0.90 µA	1508, 2012	NanoDrive, LVCMOS	Smallest XO
SiT1572		±50	1.62 to 3.63	4.5 µA	1508	LVCMOS	Smallest XO
SiT1630		75, 100, 150 over temp	1.5 to 3.63	1.0 µA	2012, SOT23-5	LVCMOS	-40 to +105°C
SiT1552 TCXO		±10, ±13, ±22, all-inclusive	1.5 to 3.63	0.99 µA	1508	NanoDrive, LVCMOS	Smallest TCXO
SiT1566/68 Super-TCXO		±3, ±5, all inclusive	1.62 to 3.63, 1.8	4.5 µA		LVCMOS	2.5 ns rms phase jitter
<b>µPower Oscillators &amp; TCXOs</b>   Lowest power   Drive two or more loads   Smallest size   Lightest weight							
SiT1534	1 Hz to 32.768 kHz	75, 100, 250 over temp	1.2 to 3.63	0.90 µA	1508, 2012	NanoDrive, LVCMOS	Smallest XO
SiT1569	1 Hz to 462.5 kHz	±50	1.62 to 3.63	2.0 µA (100 kHz)	1508	LVCMOS	Smallest XO
SiT1576 Super-TCXO	1 Hz to 2.5 MHz	±5 all inclusive	1.62 to 3.63	8.0 µA (100 kHz)			Smallest XO, 2.5 ns rms phase jitter
SiT1579	1 Hz to 2.5 MHz	±50	1.62 to 3.63	8.0 µA (100 kHz)			Smallest XO
SiT8021	1 MHz to 26 MHz	±100	1.8, 2.5 to 3.3	60 to 280 µA (0.7 µA stby)			
<b>Low-Power Oscillators</b>   Best reliability   Pin compatible QFN or SOT23 for best solder joint reliability							
SiT1602, SiT8008/09	1 MHz to 137 MHz	±20, ±25, ±50	1.8, 2.5 to 3.3	3.1 to 5.5 mA (0.6 - 1.0 µA stby)	2016, 2520, 3225, 5032, 7050	LVCMOS	FP*
SiT2001/02				3.6 to 5.4 mA (1.0 µA stby)	SOT23-5		
<b>Low-Jitter Oscillators</b>   Best reliability   0.1 ppb/g (g-sensitivity, vibration immunity)							
SiT9365/66/67**	1 MHz to 725 MHz	±10, ±20, ±25, ±50	2.5 to 3.3	76 to 89 mA	3225, 5032, 7050	LVPECL, LVDS, HCSL	0.21 ps rms phase jitter
SiT9120/21/22	1 MHz to 625 MHz		2.5 to 3.3	54 to 69 mA	3225, 5032, 7050	LVPECL, LVDS	0.5/0.6 ps rms phase jitter, FP*
SiT8208/09	1 MHz to 220 MHz		1.8, 2.5 to 3.3	29 to 36 mA (10 µA stby)	2520, 3225, 5032, 7050	LVCMOS	
<b>High-Temperature &amp; Automotive Oscillators</b>   Best reliability   0.1 ppb/g (g-sensitivity, vibration immunity)							
SiT1618, SiT8918/19	1 MHz to 137 MHz	±20, ±25, ±30, ±50	1.8, 2.5 to 3.3	3.6 to 5.4 mA (1.0 µA stby)	2016, 2520, 3225, 5032, 7050	LVCMOS	FP*, -40 to +125°C
SiT2018/19					SOT23-5		
SiT8920/21 SiT8924/25					2016, 2520, 3225, 5032, 7050		
SiT2020/21, SiT2024/25					SOT23-5		
SiT9025					0.6 to 7.9 mA (0.7 to 2.6 µA stby)		
SiT9386/87**	1 MHz to 725 MHz	±20, ±25, ±50	2.5, 2.8, 3.0, 3.3	70 to 89 mA	3225, 7050	LVPECL, LVDS, HCSL	-40 to +105°C
<b>VCXO</b>   ±25 to ±3200 ppm pull range   <1% linearity   Best reliability   0.1 ppb/g (g-sensitivity, vibration immunity)							
SiT3372/73**	1 MHz to 725 MHz	±15, ±25, ±30, ±50	2.5 to 3.3	76 to 92 mA	3225, 5032, 7050	LVPECL, LVDS, HCSL	0.21 ps rms phase jitter
SiT3807/08/09	1 MHz to 220 MHz	±10, ±25, ±50	1.8, 2.5 to 3.3	29 to 34 mA (10 to 70 µA stby)	2520, 3225, 5032, 7050	LVCMOS	0.5 ps rms phase jitter, FP*
<b>TCXO/VCTCXO/DCTCXO</b>   ±6.25 to ±3200 ppm pull range   5 ppt resolution frequency control   Best reliability   0.1 ppb/g (g-sensitivity, vibration immunity)							
SiT5358/59 Super-TCXO**	1 MHz to 220 MHz	±0.05	2.5, 2.8, 3.0, 3.3	40 to 45 mA	5032	LVCMOS, Clipped Sinewave	I2C, 1 ppb/°C slope, 0 to +70°C
SiT5356/57 Super-TCXO**		±0.1, ±0.2, ±0.25					I2C programmable, 1 ppb/°C slope, -40 to +105°C
SiT5155/56/57 Super-TCXO**		±0.5, ±1, ±2.5					
SiT5021/22	1 MHz to 625 MHz	±5	2.5, 3.3, 2.25 to 3.63	55 to 69 mA	3225, 5032, 7050	LVPECL, LVDS	0.6 ps rms phase jitter
<b>DCXO (In-System Programmable)</b>   Digital pull for lowest noise   Up to ±3200 ppm pull range, 5 ppt pull resolution   <1% linearity							
SiT3521/22**	1 MHz to 725 MHz	±20, ±25, ±50	2.5 to 3.3	70 to 82 mA	5032	LVPECL, LVDS, HCSL	I2C programmable, 0.21 ps rms phase jitter
SiT3907	1 MHz to 220 MHz	±10, ±25, ±50	1.8, 2.5 to 3.3	32 mA	3225, 5032, 7050	LVCMOS	0.5 ps rms phase jitter, FP*
<b>SSXO (Spread Spectrum Oscillators)</b>   ±0.125 to ±2.0% center spread   -0.25% to -4.0% down spread   Lowest cycle-cycle jitter							
SiT9005	1 MHz to 141 MHz	±20, ±25, ±50	1.8, 2.5 to 3.3	4.0 to 5.6 mA	2016, 2520, 3225 (SiT9003 for 5032, 7050)	LVCMOS	Smallest SSXO, FP*
SiT9002	1 MHz to 220 MHz	±25, ±50	1.8, 2.5, 3.3	48 to 75 mA	5032, 7050	LVPECL, CML LVDS, HCSL	FP*