■ Products Selection Guide for MEMS Oscillators

Base Part No.	Output Frequency	Frequency Stability [ppm]	Supply Voltage [V]	Supply Current (Typical)	Packages [mm x mm]	Output Logic	Features
µPower 32 kHz Solutions & TCXOs | 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	1.5 to 3.63	1.00 µA	2012, SOT23-5	LVCMOS	-40 to +105℃
SiT1552 TCXO		±5, ±10, ±20.	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	2.5ns rms phase jitter
µPower Oscillators & TCXOs | Lowest power | Drive two or more loads | Smallest size | Lightest weight							
SiT1534	1 Hz to 32.768 kHz	75, 100, 150 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 MHz to 2.5 MHz	±5 all inclusive	1.62 to 3.63	8.0 µA(100 kHz)			Smallest XO 2.5ns rms phase jitter
SiT1579	1 MHz to 2.5 MHz	±50	1.62 to 3.63	8.0 µA(100 kHz)			
SiT8021	1 MHz to 26 MHz	±100	1.8, 2.5 to 3.3	60 to 280 µA (0.7 µA stby)			Smallest XO
Low-Power Oscillators | Best reliability | Pin compatible QFN or SOT23 for best solder joint reliability							
SiT1602, SiT8008/9	1 MHz to 137MHz	±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		
Low-Jitter Oscillators | 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*
SiT8208/9	1 MHz to 220 MHz		1.8, 2.5 to 3.3	29 to 36 mA (10 µA stby)	2520, 3225, 5032, 7050	LVCMOS	
High-Temperature and Automotive Oscillators | 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℃
SiT2018/19					SOT23-5		
SiT8920/21 SiT8924/25					2016, 2520, 3225, 5032, 7050		FP* -55 to +125℃
SiT2020/21 SiT2024/25					SOT23-5		
SiT9025	1 MHz to 150 MHz	±25, ±50		0.6 to 7.9 mA (0.7 to 2.6 µA stby)	2016, 2520, 3225		EMI reduction -55 to +125℃
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℃
VCXO | ±25 to ±3200 ppm pull range | <1% linearity | Best reliability | 0.1 ppb/g (g-sensitivity, vibration immunity)							
SMV3372/73**	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
SMV3807/8/9	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*
TCXO/VCTCXO/DCTCXO | ±6.25 to ±3200 ppm pull range | 5 ppt resolution frequency control | Best reliability | 0.1 ppb/g(g-sensitivity, vibration immunity)							
SiT5356/57 Super-TCXO**	1 MHz to 220 MHz	±0.05, ±0.1, ±0.2, ± 0.25	2.5, 2.8, 3.0, 3.3	40 to 45 mA	5032	LVCMOS, Clipped Sinewave	I^2C, 1 ppb/℃ slope, 0 to +70℃
SiT5358/59 Super-TCXO**							I^2C, 1 ppb/℃ slope, 0 to +70℃ -40 to +105℃
SiT5155/56/57 Super-TCXO**	1 MHz to 220 MHz	±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
DCXO (In-System Programmable) | 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	I^2C programmable, 0.21 ps rms phase jitter
SiT3807/08/09	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*
SSXO (Spread Spectrum Oscillators) | ±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 XO 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*

* Field programmable with Time Machine Ⅱ programmer

** Elite Platform products with DualMEMS™ technology for best dynamic performance