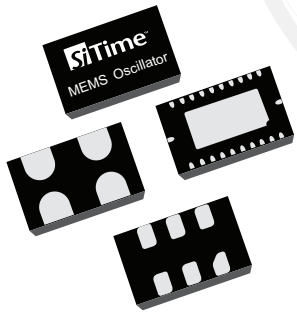


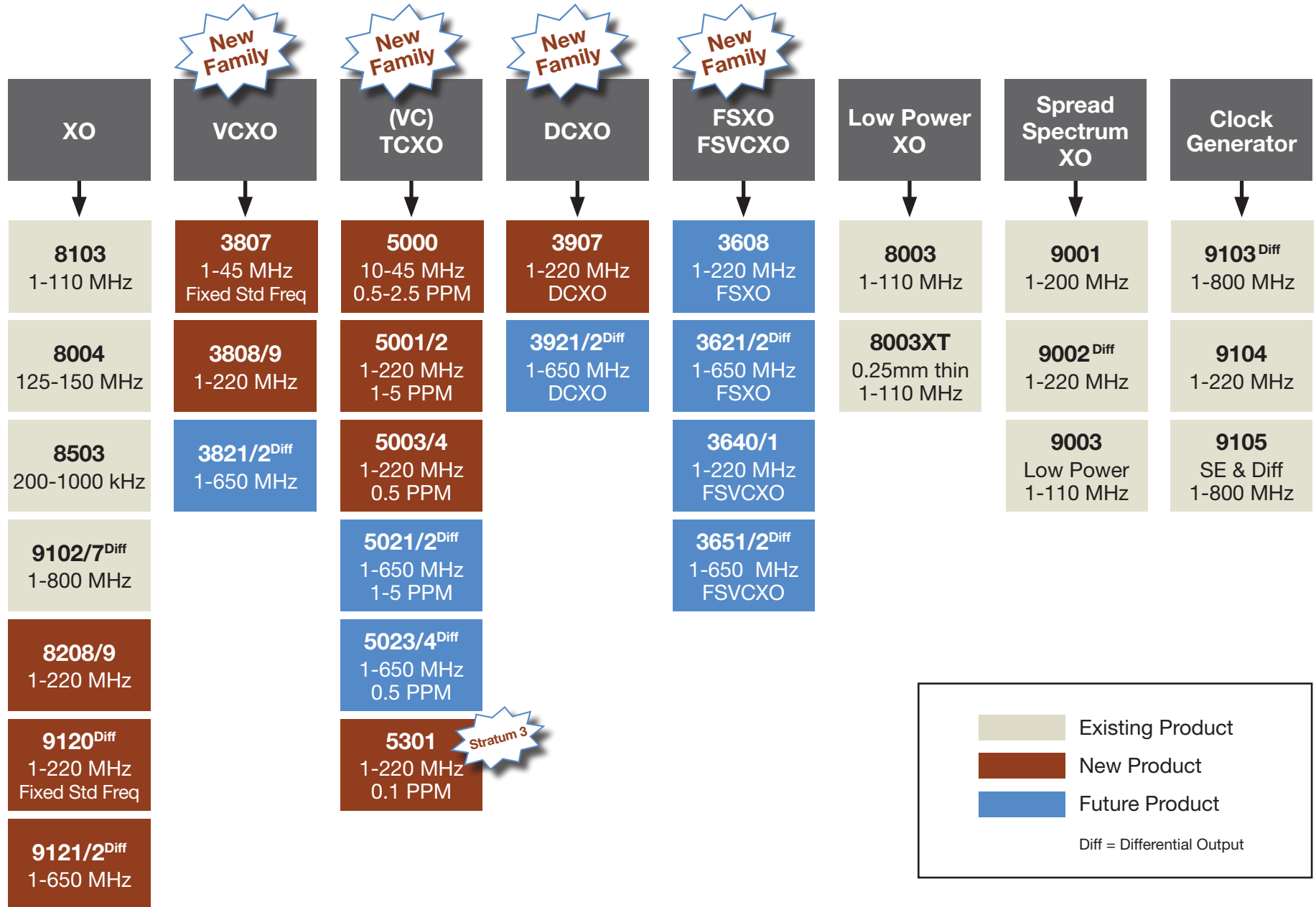


- **100% Drop-in Replacement to XO, VCXO, TCXO**
- **Ultra-Stable: As low as 0.1 PPM**
- **TCXO with Stratum 3 Performance**
- **Ultra-Low Jitter: $0.5\text{ps}_{\text{rms}}$ (12kHz-20MHz)**
- **Widest Frequency Range: 200 kHz to 800 MHz**
- **Wide Operating Temp Range: Up to -40°C to $+105^{\circ}\text{C}$**
- **New Specialty Products: Digitally Controlled XO**
- **Shortest Lead Times, Any Frequency!**
- **Samples Shipped Within 48 Hours**



SiTime™

Timing Solutions



Target Markets	Devices	Function	Key Features	Output Frequency (MHz)	Frequency Stability (PPM)	Pull Range (PPM)	Logic	Supply Current (mA Typ)	Temp Range*	Packages	Additional Features and Options ¹			
XO											Oscillators			
New! Networking, Telecom, Server and Storage	SIT8208	XO	<ul style="list-style-type: none"> Best Stability Lowest Phase Jitter: 0.5ps_{rms} 	1-80	10, 20, 25, 50	-	CMOS LVTTTL	32 80µA (Stby)	C, I, E	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
	SIT8209			80-220		-					✓	✓	-	-
Computing, Consumer, Industrial	SIT8103	XO	<ul style="list-style-type: none"> General Purpose Cost Effective High Frequency Low-Power 	1-110	20, 25, 30, 50	-	CMOS LVTTTL	6.7 1.2µA (Stby) 6.2 1.2µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
	SIT8004			125-150		20, 25, 50					-	✓	✓	-
Portable, Handheld Consumer and Computing	SIT8003 ²	XO	<ul style="list-style-type: none"> Low-Power 	1-110	20, 25, 30, 50	-	CMOS LVTTTL	3.7 1.2µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
Low Frequency Computing, Consumer	SIT8503	XO	<ul style="list-style-type: none"> High Performance kHz Oscillator 	0.20-1	20, 25, 30, 50	-	CMOS LVTTTL	5.9 2.4µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
SSXO											Spread-Spectrum Control Oscillators			
Spread Spectrum for General Computing, Memory, µC, Portable and Handheld	SIT9001	SSXO	<ul style="list-style-type: none"> Spread-Spectrum: Center-Spread and Down Spread Options 	1-200	50, 100	-	CMOS LVTTTL	20 30µA (Stby) 3.7 1.2µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	-	✓
	SIT9003			1-110		-					✓	✓	-	✓
VCXO											Voltage-Controlled Oscillators			
New Family! Networking, Telecom, Medical, ATE, Video, xDSL, and Embedded Systems	SIT3807	VCXO	<ul style="list-style-type: none"> Fixed Frequency Options for Lowest Cost Lowest Phase Jitter: 0.5ps_{rms} 	1.5-45 (Fixed Options)	25, 50	25-200 (1% Linearity)	CMOS LVTTTL	32 80µA (Stby)	C, I, E	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	✓	-
	SIT3808	VCXO	<ul style="list-style-type: none"> Widest Pull-Range 1% Pull-Range Linearity Lowest Phase Jitter: 0.5ps_{rms} 	1-80	10, 25, 50	25-1600 (1% Linearity)					✓	✓	✓	-
	SIT3809			80-220							✓	✓	✓	-
(VC)TCXO											Temperature-Compensated Oscillators			
New Families! Telecom, Core, WAN, MAN, Sonet Networking, Telecom, Server and Storage, Wireless, GPS, Satellite, ATE, Broadcast Video, Basestations, Media Gateways, 3G/4G USB Cards	SIT5301/2	(VC) TCXO	<ul style="list-style-type: none"> <0.37ppm 24-Hr Holdover <4.6ppm 20-Year Total Stability 	1-60, 60-220	0.1	12.5	CMOS LVTTTL	32 80µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	-	-	✓	-
	SIT5000	(VC) TCXO	<ul style="list-style-type: none"> Fixed Frequency for Lowest Cost (SiT5000) Widest Pull-Range Lowest Phase Jitter: 0.5ps_{rms} 	10-40 (Fixed Options)	0.5, 1.0, 1.5, 2.5	12.5					CMOS LVTTTL	✓	✓	✓
	SIT5001			1-80	1.0, 1.5, 2.5, 5	12.5-50	✓					✓	✓	-
	SIT5002			80-220			✓					✓	✓	-
	SIT5003	(VC) TCXO	<ul style="list-style-type: none"> Best Stability Widest Pull-Range Lowest Phase Jitter: 0.5ps_{rms} 	1-80	0.5	12.5-50	CMOS LVTTTL				✓	✓	✓	-
SIT5004	80-220			✓				✓	✓	-				

* Temperature Range Options: C: -20°C to 70°C I: -40°C to 85°C E: -40°C to 105°C

Note 1: All Products Have SoftEdge™ Drive Strength Option

Note 2: Contact Factory for 0.25mm Ultra-Low Package Height Option

Target Markets	Devices	Function	Key Features	Output Frequency (MHz)	Frequency Stability (PPM)	Pull Range (PPM)	Logic	Supply Current (mA Typ)	Temp Range*	Packages	Additional Features and Options ¹			
XO											Oscillators			
Networking, Telecom, Server and Storage	SIT9120	XO	<ul style="list-style-type: none"> Fixed Frequency Options for Lowest Cost (SIT9120) Best Stability Lowest Phase Jitter: 0.5ps_{rms} 	1-220 (Fixed Options)	25, 50	-	LVPECL LVDS	42-55 100µA (Stby)	C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
	SIT9121			1-220	10, 20, 25, 50						✓	✓	-	-
	SIT9122			220-650	✓						✓	-	-	
Networking, Storage, 10G, Fibre Channel, GigE	SIT9102	XO	<ul style="list-style-type: none"> General Purpose Differential XO High-Frequency to 800MHz (SIT9107) 	1-220	10, 15, 20, 25, 50	-	LVPECL LVDS HCSSL CML	48-75	N, C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
	SIT9107			220-650							✓	✓	-	-
SSXO											Spread-Spectrum Control Oscillators			
Computing, Servers with Low EMI Requirements	SIT9002	SSXO	<ul style="list-style-type: none"> Spread-Spectrum: Center-Spread and Down Spread Options 	1-220	25, 50	-	LVPECL LVDS HCSSL CML	48-75	C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	-	✓
VCXO											Voltage-Controlled Oscillators			
Networking, Telecom, Medical, ATE, Video, xDSL, Embedded Systems	SIT3821	VCXO	<ul style="list-style-type: none"> Best Stability 1% Pull-Range Linearity Lowest Phase Jitter: 0.5ps_{rms} 	1-220	10, 25, 50	25-1600 (1% Linearity)	LVPECL LVDS	43-56 100µA (Stby)	C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	✓	-
	SIT3822			220-650							✓	✓	✓	-
(VC)TCXO											Temperature-Compensated Oscillators			
Networking, Telecom, Server and Storage, Wireless, GPS, Satellite, ATE, Broadcast Video, Basestations, Media Gateways, 3G/4G USB Cards	SIT5021	(VC) TCXO	<ul style="list-style-type: none"> Widest Pull-Range Lowest Phase Jitter: 0.5ps_{rms} 	1-220	1-5	12.5-50	LVPECL LVDS	43-56 100µA (Stby)	C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	✓	-
	SIT5022			220-650							✓	✓	✓	-
	SIT5023	(VC) TCXO	<ul style="list-style-type: none"> Best Stability Widest Pull-Range Lowest Phase Jitter: 0.5ps_{rms} 	1-220	0.5	12.5-50	LVPECL LVDS	43-56 100µA (Stby)	C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	✓	-
	SIT5024			220-650							✓	✓	✓	-

* Temperature Range Options: N: 0°C to 70°C C: -20°C to 70°C I: -40°C to 85°C

Note 1: All Products Have SoftEdge™ Drive Strength Option

Target Markets	Devices	Function	Key Features	Output Frequency (MHz)	Frequency Stability (PPM)	Pull Range (PPM)	Output Logic	Number of Selectable Frequencies	Supply Current (mA Typ)	Temp Range*	Packages	Additional Features and Options ¹			
FSXO												Pin-Selectable Frequency Oscillators			
<p>All Networking, Telecom and Storage</p>	SIT3608	FSXO	<ul style="list-style-type: none"> Pin-Selectable Frequency Control Lowest Phase Jitter: 0.5ps_{rms} 	1-220	10-50	-	CMOS LVTTTL	9	32 80µA (Stby)	C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
	SIT3621			LVPECL LVDS			3	43-56 100µA (Stby)	✓			✓	-	-	
	SIT3622			LVPECL LVDS			3	43-56 100µA (Stby)	✓			✓	-	-	
DCXO												Digitally-Controlled Oscillators			
<p>All Networking, Telecom and Storage</p>	SIT3907	DCXO	<ul style="list-style-type: none"> Single-Pin, Serial Programmable 0.01% Pull-Range Linearity Lowest Phase Jitter: 0.5ps_{rms} 	1-220	10-50	25-1600	CMOS LVTTTL	Any Frequency	32 80µA (Stby)	C, I	3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	-	-	✓
	SIT3921 [†]			LVPECL LVDS			100µA (Stby)		✓			-	-	✓	
	SIT3922 [†]			LVPECL LVDS			100µA (Stby)		✓			-	-	✓	
FSVCXO												Pin-Selectable Frequency + VCXO			
<p>Networking, Telecom and Storage, Broadband Access, µP, DSP, FPGA</p>	SIT3640	FSVCXO	<ul style="list-style-type: none"> Pin-Selectable Frequency Control Widest Voltage-Control Pull-Range Lowest Phase Jitter: 0.5ps_{rms} 	1-220	10-50	25-1600	CMOS LVTTTL	3	32 80µA (Stby)	C, I	5.0x3.2mm 7.0x5.0mm	✓	-	✓	-
	SIT3641			9				✓				-	✓	-	
	SIT3651			LVPECL LVDS			3	43-56 100µA (Stby)	✓			-	✓	-	
	SIT3652								✓			-	✓	-	

Target Markets	Devices	Function	Key Features	Output Frequency (MHz)	Frequency Stability (PPM)	Output Logic	Number of PLLs	Number of Output Channels	Supply Current (mA Typ)	Temp Range*	Packages	Additional Features and Options ¹			
												OE	Standby	V-Control	SSC
Networking, Storage, Computing, Servers	SIT9103	Clock Gen	• 3 PLL, 3 Output Programmable Clock Generator	1-800	25-50	LVPECL LVDS HCSL CML	3	3 Differential	40-70 per Channel	C, I	7.0x5.0mm 20-pin	✓	✓	-	✓
	SIT9104		• 3 PLL, 3 Output Programmable Clock Generator	1-220		CMOS LVTTTL		6 Single Ended	<26 per Channel 30µA (Stby)		7.0x5.0mm 22-pin	✓	✓	-	✓
	SIT9105		• Clock Generator with SE and Differential Outputs	1-220 (SE) 1-220 (Diff)		CMOS LVTTTL LVPECL LVDS HCSL CML		2 Single Ended 1 Differential	31mA per SE Channel, 65mA Diff		7.0x5.0mm 22-pin	✓	✓	-	✓

* Temperature Range Options: C: -20°C to 70°C I: -40°C to 85°C † Samples Available Q2 2012 Note 1: All Products Have SoftEdge™ Drive Strength Option



The Smart Timing Choice™

Sample Any Frequency, Voltage or Package Shipped Within 48 Hours



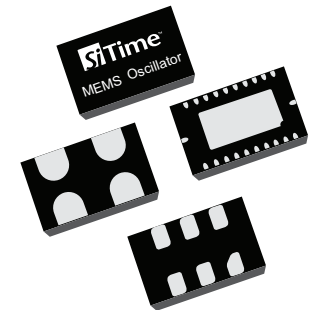
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