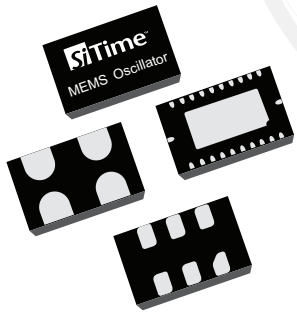


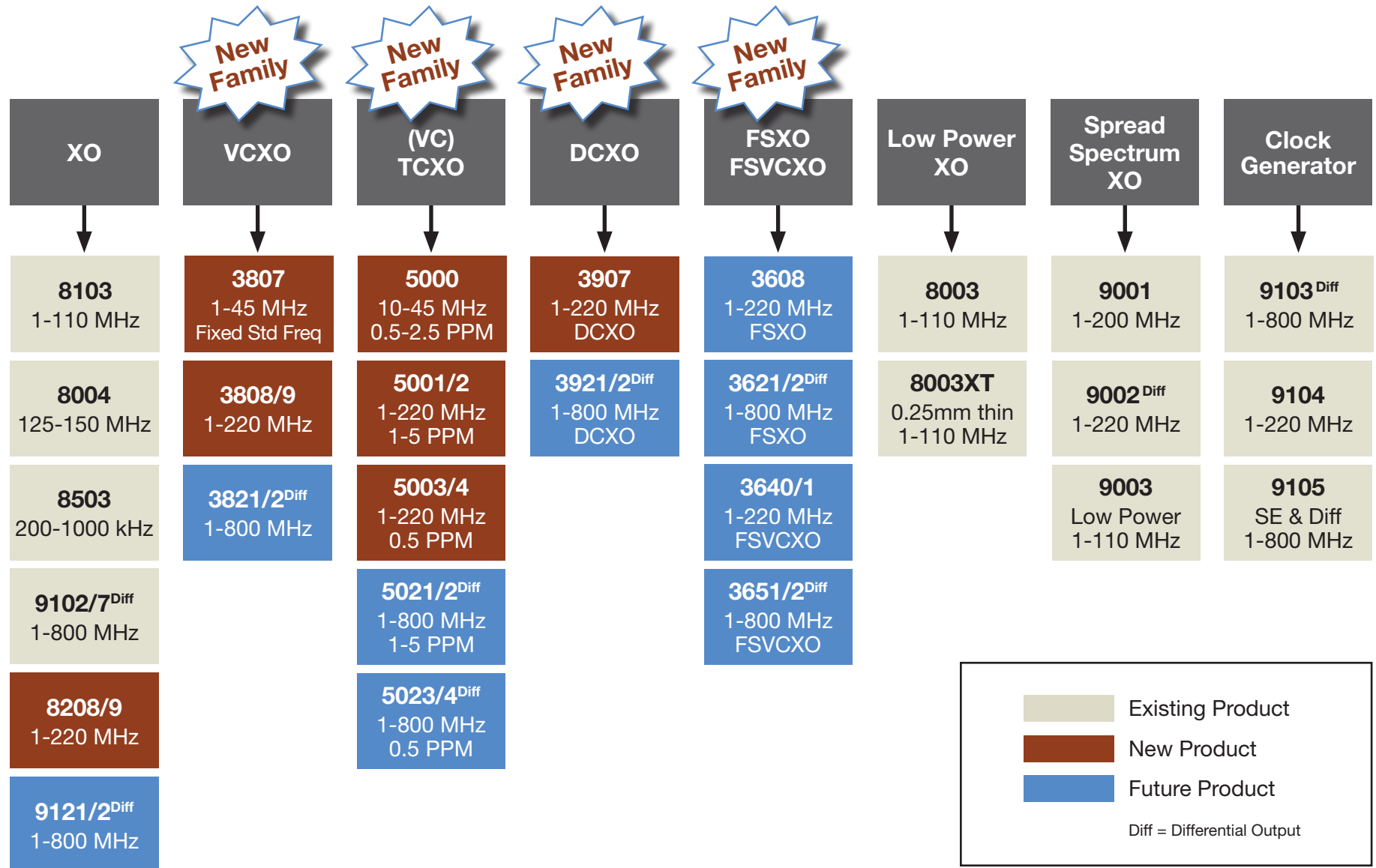


- **100% Drop-in Replacement to XO, VCXO, TCXO**
- **Ultra-Stable: As low as 0.5 PPM**
- **Ultra-Low Jitter: 0.5ps_{rms} (12kHz-20MHz)**
- **Widest Frequency Range: 200 kHz to 800 MHz**
- **Wide Operating Temp Range: Up to -40°C to +105°C**
- **New Specialty Products: Digitally Controlled XO**
- **Shortest 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					
Oscillators											OE	Standby	V-Control	SSC		
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 	1-110	20, 25, 30, 50	-	CMOS LVTTTL	6.7 1.2µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	-	-		
	SIT8004			125-150		20, 25, 50					-	6.2 1.2µA (Stby)	✓	✓	-	-
Portable, Handheld Consumer and Computing	SIT8003	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	✓	✓	-	-		
	SIT8003XT			1-110		100					-	3.5x3.0mm 0.25mm Height	✓	✓	-	-
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	✓	✓	-	-		
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)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	-	✓		
	SIT9003			1-110		-					3.7 1.2µA (Stby)	✓	✓	-	✓	
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							✓	✓	✓	-		
Temperature-Compensated Oscillators																
New Family! Networking, Telecom, Server and Storage, Wireless, GPS, Satellite, ATE, Broadcast Video, Basestations, Media Gateways, 3G/4G USB Cards	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, 2.5	12.5	CMOS LVTTTL	32 80µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	✓	-		
	SIT5001			1-80							1.0, 1.5, 2.5, 5	12.5-50	✓	✓	✓	-
	SIT5002			80-220									✓	✓	✓	-
	(VC) TCXO	SIT5003	<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	32 80µA (Stby)	C, I	2.5x2.0mm 3.2x2.5mm 5.0x3.2mm 7.0x5.0mm	✓	✓	✓	-		
				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

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	SIT9121	XO	<ul style="list-style-type: none"> • Best Stability • Lowest Phase Jitter: 0.5ps_{rms} 	1-220	10, 20, 25, 50	-	LVPECL LVDS	42-55 100µA (Stby)	C, I	5.0x3.2mm 7.0x5.0mm	✓	✓	-	-
	SIT9122			220-800		-					✓	✓	-	-
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			220-800		-					✓	✓	-	-
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			220-800							✓	✓	✓	-
(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			220-800							✓	✓	✓	-
	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			220-800							✓	✓	✓	-

* 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			
 All Networking, Telecom and Storage	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			1-220			LVPECL LVDS	3	43-56 100µA (Stby)			✓	✓	-	-
	SIT3622			220-800			LVPECL LVDS	3	43-56 100µA (Stby)			✓	✓	-	-
DCXO												Digitally-Controlled Oscillators			
 All Networking, Telecom and Storage	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 [†]			1-220			LVPECL LVDS		100µA (Stby)			✓	-	-	✓
	SIT3922 [†]			220-800			LVPECL LVDS		100µA (Stby)			✓	-	-	✓
FSVCXO												Pin-Selectable Frequency + VCXO			
 Networking, Telecom and Storage, Broadband Access, µP, DSP, FPGA	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			10-800			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) 1-800 (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 In January Note 1: All Products Have SoftEdge™ Drive Strength Option



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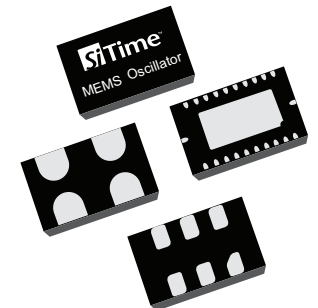
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