




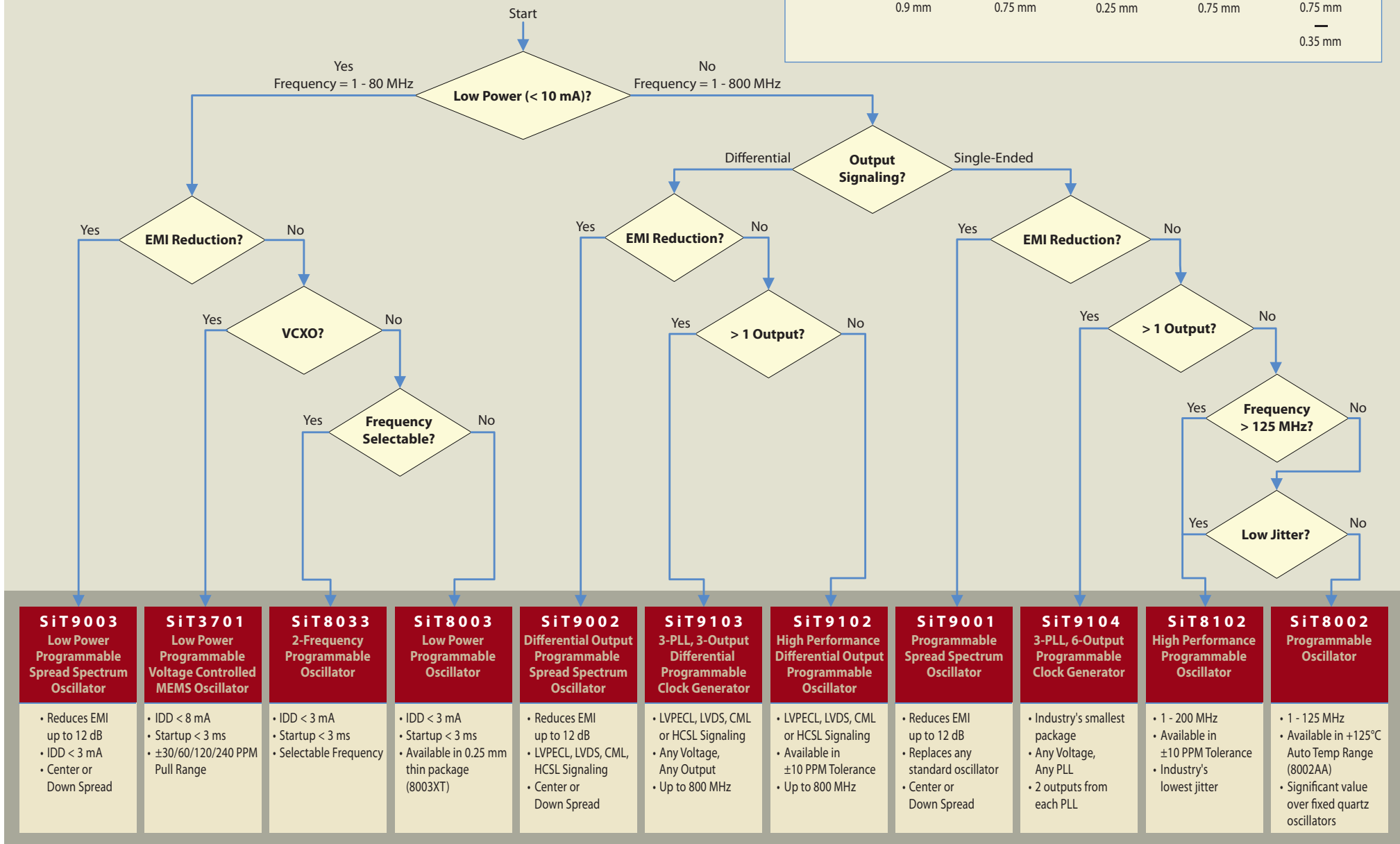


# Product Selector Guide

ACTUAL PACKAGE SIZES					
	7050	5032	3530 (XT)	3225	2520
Footprint (L x W)	 7.0 x 5.0 mm	 5.0 x 3.2 mm	 3.5 x 3.0 mm	 3.2 x 2.5 mm	 2.5 x 2.0 mm
Height	 0.9 mm	 0.75 mm	 0.25 mm	 0.75 mm	 0.75 mm  0.35 mm



2 - 3 week lead time for production volumes. 500 Million Hours (2 FIT) MTBF. 50,000G shock resistance and 70G vibration resistance. All products have an embedded resonator. Please contact SiTime for other custom variations. Subject to change without notice.



# Product Summary

It's About Time

Product Family	Devices	Product Description	Output Frequency Range [MHz]	Frequency Tolerance [±PPM]	Supply Voltage [V]	Package	Temp Range	Output(s)		Typical IDD [mA]	Max Startup [ms]	Typical RMS Period Jitter [ps]	Key Programmable Features
								No.	Type				
High Performance Programmable Oscillators	SiT8102	High Performance Programmable Oscillator	1 - 200 (Any)	10 15 25 50	1.8 2.5 2.8 3.3	7050 5032 3225 2520	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	Single-Ended	< 25	10	< 3	• Clock Frequency • Frequency Tolerance • Supply Voltage
	SiT9102	Differential Output Programmable Oscillator	1 - 220 (Any) 220 - 800 (Selected)	10 15 25 50	1.8 2.5 3.3	7050 5032	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	LVPECL LVDS CML HCSL	40 - 70	10	< 3	• Clock Frequency • Frequency Tolerance • Supply Voltage • Output Signal Type
	SiT8002	Programmable Oscillator	1 - 125 (Any)	30 50 100	1.8 2.5 3.3	7050 5032 3225 2520	-20°C to +70°C -40°C to +85°C	1	Single-Ended	< 20	12	< 15	• Clock Frequency • Frequency Tolerance • Supply Voltage
	SiT8002AA	Automotive Programmable Oscillator	1 - 125 (Any)	100 200 500	1.8 2.5 3.3	7050 5032 3225 2520	-40°C to +105°C -40°C to +125°C	1	Single-Ended	< 20	12	< 15	• Clock Frequency • Frequency Tolerance • Supply Voltage
Low Power Programmable Oscillators	SiT8003	Low Power Programmable Oscillator	1 - 80 (Any) 80 - 110 (Selected)	25 30 50 100	1.8 2.5 2.8 3.3	7050 5032 3225 2520	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	Single-Ended	< 3	3	< 3	• Clock Frequency • Frequency Tolerance • Supply Voltage
	SiT8003XT	0.25 mm Thin Programmable Oscillator	1 - 80 (Any) 80 - 110 (Selected)	100	1.8 2.5 2.8 3.3	3530 (XT)	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	Single-Ended	< 3	3	< 3	• Clock Frequency • Frequency Tolerance • Supply Voltage
	SiT8033	2-Frequency Programmable Oscillator	1 - 80 (Any) 80 - 110 (Selected)	25 30 50 100	1.8 2.5 2.8 3.3	7050 5032 3225 2520	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	Single-Ended	< 3	3	< 3	• Clock Frequency • Frequency Tolerance • Supply Voltage
Programmable Spread Spectrum Oscillators	SiT9001	Programmable Spread Spectrum Oscillator	1 - 200 (Any)	50 100 (Spread off)	1.8 2.5 3.3	7050 5032 3225 2520	-20°C to +70°C -40°C to +85°C	1	Single-Ended	< 25	10	Not Applicable	• Clock Frequency • Supply Voltage • Center or Down Spread & Value
	SiT9002	Differential Output Programmable Spread Spectrum Oscillator	1 - 220 (Any) 220 - 800 (Selected)	25 50 (Spread off)	1.8 2.5 3.3	7050 5032	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	LVPECL LVDS CML HCSL	40 - 70	10	Not Applicable	• Clock Frequency • Supply Voltage • Center or Down Spread & Value
	SiT9003	Low Power Programmable Spread Spectrum Oscillator	1 - 80 (Any) 80 - 110 (Selected)	50 100 (Spread off)	1.8 2.5 2.8 3.3	7050 5032 3225 2520	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	Single-Ended	< 3	3	Not Applicable	• Clock Frequency • Supply Voltage • Center or Down Spread & Value
Programmable Voltage Controlled MEMS Oscillators	SiT3701	Low Power Programmable Voltage Controlled MEMS Oscillator	1 - 80 (Any) 80 - 110 (Selected)	25 30 50 100	1.8 2.5 2.8 3.3	7050 5032 3225 2520	0°C to +70°C -20°C to +70°C -40°C to +85°C	1	Single-Ended	< 8	3	< 3	• Clock Frequency • Frequency Tolerance • Supply Voltage • Pull Range
Programmable Clock Generators	SiT9103	3-PLL, 3-Output Differential Programmable Clock Generator	1 - 220 (Any) 220 - 800 (Selected)	25 50	1.8 2.5 3.3	7050 22-pin	-20°C to +70°C -40°C to +85°C	3	LVPECL LVDS CML HCSL	40 - 70 per output	10	< 5	• Clock Frequency • Frequency Tolerance • Supply Voltage for each PLL • Output Signal Type for each Output
	SiT9104	3-PLL, 6-Output Programmable Clock Generator	1 - 220 (Any)	25 50	1.8 2.5 3.3	7050 22-pin	-20°C to +70°C -40°C to +85°C	6	Single-Ended	25 per output	10	< 5	• Clock Frequency • Frequency Tolerance • Supply Voltage for each PLL

2 - 3 week lead time for production volumes. 500 Million Hours (2 FIT) MTBF. 50,000G shock resistance and 70G vibration resistance. All products have an embedded resonator. Standby and Output Enable modes are available on most devices. Please contact SiTime for other custom variations. Subject to change without notice. Please refer to product data sheet for exact specifications.