



SiTime's programmable, MEMS-based Voltage Controlled Oscillators are the most flexible VCXO solutions for telecom, wireless, networking, video, audio, instrumentation and FPGA applications.

Key features:

- Any combination of frequencies (up to 625 MHz), voltage (1.8V, 2.5V to 3.3V), pull range (± 25 PPM to ± 1600 PPM) and industry-standard packages (3225, 5032, 7050)
- LVCMOS outputs (SiT3808, SiT3809, SiT3701) and differential outputs (SiT3821, SiT3822)
- Best linearity of <1%, 10 times better than quartz VCXO
- Superior tuning slope (Kv) consistency
- Widest pull range from ± 25 PPM to ± 1600 PPM
- Available as field programmable

Model	Output Type & Description	Frequency & Characteristics	Op Temp. Range & Stability Option	Pulling Range (PPM)	Control Voltage	Package Size (mm)
SiT3807	LVCMOS/LVTTL O/P High Performance	30 Standard Frequencies 1.544 MHz and 49.152 MHz 1.8V, 2.5V & 3.3V continuous	-20°C to +70°C -40°C to +85°C ± 25 PPM & ± 50 PPM	± 50 ± 100 ± 150 ± 200	0-Vdd	2.5x2.0x0.75 (4-pin) 3.2x2.5x0.75 (4-pin) 5.0x3.2x0.75 (6-pin) 7.0x5.0x0.9 (6-pin)
SiT3808	LVCMOS/LVTTL O/P High Performance Programmable Frequency	Frequencies 1-80MHz 1.8V & 2.5 -3.3V continuous	-20°C to +70°C -40°C to +85°C ± 10 PPM, ± 25 PPM & ± 50 PPM	± 25 to ± 1600	0-Vdd	2.5x2.0x0.75 (4-pin) 3.2x2.5x0.75 (4-pin) 5.0x3.2x0.75 (6-pin) 7.0x5.0x0.9 (6-pin)
SiT3809	LVCMOS/LVTTL O/P High Frequency High Performance Programmable Frequency	Frequencies 88-220MHz 1.8V & 2.5 -3.3V continuous	-40°C to +105°C -40°C to +125°C ± 10 PPM, ± 25 PPM & ± 50 PPM	± 25 to ± 1600	0-Vdd	2.5x2.0x0.75 (4-pin) 3.2x2.5x0.75 (4-pin) 5.0x3.2x0.75 (6-pin) 7.0x5.0x0.9 (6-pin)
SiT3701	LVCMOS/LVTTL O/P World Smallest Programmable Frequency	Frequencies 1-110MHz 1.8V, 2.5V, 2.8V, 3.3V	-20°C to +70°C -40°C to +85°C	± 30 ± 60 ± 120 ± 240		2.5x2.0x0.75 3.2x2.5x0.75 5.0x3.2x0.75 7.0x5.0x0.9
SiT3821	LVPECL & LVDS O/P High Performance Programmable Frequency	Frequencies 1-220MHz 2.5V & 3.3V RMS Phase Noise ≤ 0.5 ps	-20°C to +70°C -40°C to +85°C	± 25 to ± 1600	0-Vdd	5.0x3.2x0.75 (6-pin) 7.0x5.0x0.9 (6-pin)
SiT3822	LVPECL & LVDS O/P High Performance High Frequency Programmable Frequency	Frequencies 220-625MHz 2.5V & 3.3V RMS Phase Noise ≤ 0.5 ps	-20°C to +70°C -40°C to +85°C	± 25 to ± 1600	0-Vdd	5.0x3.2x0.75 (6-pin) 7.0x5.0x0.9 (6-pin)