SiTime MEMS Timing Solutions

LIFETIME WARRANTY

RoHS compliant 2002/95/EC

Programmable Voltage Controlled Oscillators (VCXO)

Static sensitive device

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 ±25PPM & ±50PPM	±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 ±10PPM, ±25PPM & ±50PPM	±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 ±10PPM, ±25PPM & ±50PPM	±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)

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