

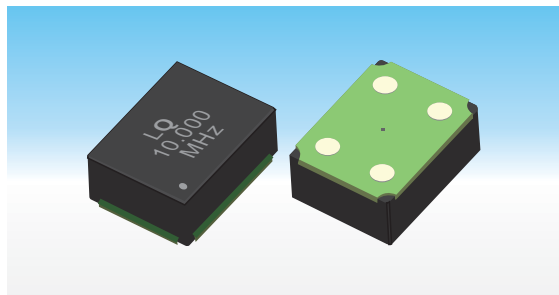
OCXO / oven Controlled Crystal Oscillator

1X Series SMD 9×7 OCXO

10MHz~50MHz

O: Clipped Sine Wave /CMOS

Size: 9.7×7.5×4.1 mm



Features

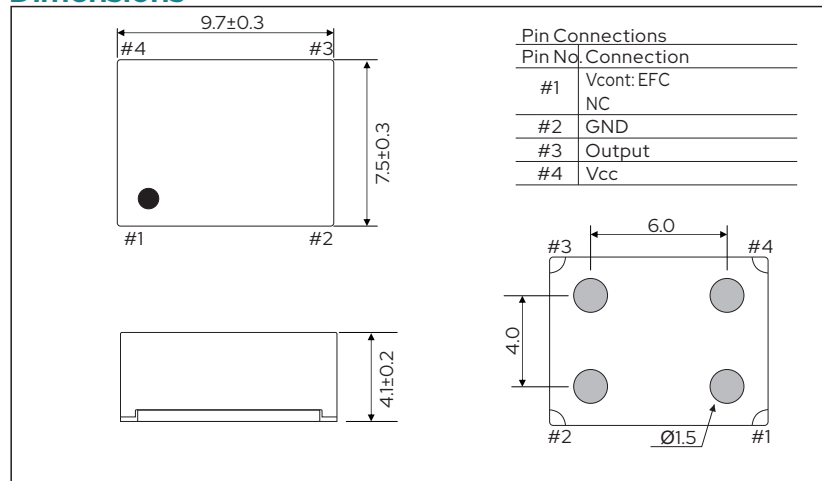
- Dimension 9.7×7.5×4.1 mm, miniature 4-pad SMD package
- Low power consumption
- Stratum 3
- Output type: Clipped Sine Wave /CMOS
- High frequency range: 10MHz~50MHz
- ±20ppb stability over -40°C~+85°C
- Application for small cell, Test & Instrumentation, Synthesizer, Digital switch, Portable telecommunication device, etc
- RoHS Compliant /Pb Free



Standard Specifications

Item		1X Series SMD 9×7 OCXO	
Output Frequency Range		10MHz~50MHz	
Supply Voltage		3.3V /5.0V	
Output Level		Clipped Sine Wave 0.8Vp-p min.	CMOS "0" level 0.1×Vcc V max., "1" level 0.9×Vcc V min. Symmetry: 45~55%
Output Load		10KΩ/10pF±10%	15pF
Power Consumption		0.4 Watts max. at steady-state; 350mA max. at turn-on.	
Frequency Stability	vs. Tolerance	±500ppb max.	
	vs. Temperature	±20ppb max.	
	vs. Supply Voltage	±10ppb max. (Vcc±5%)	
	vs. Warm-up Time	5 minute max. Within ±0.1ppm of its reference frequency.	
	vs. Aging	±3.0ppb max./after 30 days ; ±600ppb max./first year ; ±3ppm max. over 10 years.	
Rise and Fall Time		7nS (max.) (20%~80% of waveform)	
Voltage Control On Pin1 (EFC) (Electrical Freq. Tuning)	Frequency Adjustment Range	±5ppm min.	
	Control Voltage Range	+1.65V±1.65V@3.3V, +2.5V±2.5V@5.0V	
	Transfer Function	Positive: Increasing control voltage increases output frequency	
	Input Impedance	100KΩ min.	
	EFC Linearity	±10% max.	
Phase Noise @20MHz	Offset 10Hz	-98dBc/Hz	
	Offset 100Hz	-126dBc/Hz	
	Offset 1KHz	-145dBc/Hz	
	Offset 10KHz	-152dBc/Hz	
Operating Temperature Range		-30~+85°C, -40~+85°C, or specify	
Storage Temperature Range		-55~+125°C	

Dimensions



Recommended Land Pattern [mm]

