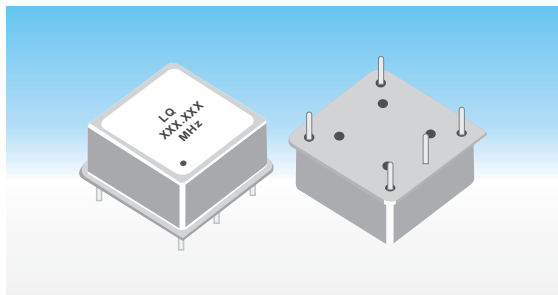


# OCXO / oven Controlled Crystal Oscillator

9M Series Thru-hole 25×25 OCXO 5MHz~100MHz O: Square Wave /True Sine Wave Size: 25.4×25.4×12.7 mm



## Features

- All metal welded DIP package, dimension 25.4×25.4×12.7mm
- 3.3V / 5.0V supply voltage
- Voltage control (Electronic Frequency Tuning) is standard
- Output wave: Square wave /True sine wave
- High frequency range: 5MHz~100MHz
- SC-Cut crystal
- Application for base station, Test & Instrumentation, Synthesizer, Digital switch, RTC clock, SDH/SONET, etc
- RoHS Compliant /Pb Free

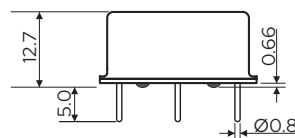
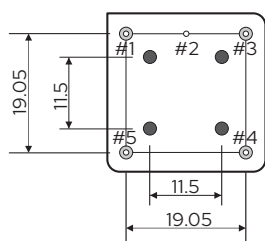
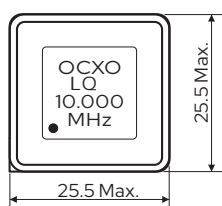


## Standard Specifications

Item	Item	9M Series Thru-hole 25×25 OCXO	
Output Frequency Range		5MHz~100MHz	5MHz~40MHz
Supply Voltage		3.3V /5.0V	
Output Level		True Sine Wave 2dBm~15dBm Harmonics: -30dBc max. Spurious: -100dBc max.	Square Wave "0" level 0.1×Vcc V max., "1" level 0.9×Vcc V min. Symmetry: 45~55%
Output Load		50Ω	15pF
Power Consumption		2.1 Watts max. at steady-state; 950mA max. at turn-on.	
Frequency Stability	vs. Initial Calibration Tolerance	±100ppb max.	
	vs. Temperature	±3ppb~±200ppb max.	
	vs. Supply Voltage	±1.0ppb max. (Vcc±5%)	
	vs. Warm-up Time	10 minute max. Within ±10ppb of its reference frequency.	
	vs. Aging	±0.5ppb max./after 30 days ; ±50ppb max./first year ; ±300ppb 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	±0.5~±5ppm	
	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	50KΩ min.	
	EFC Linearity	±10% max.	
Phase Noise @10MHz	Offset 10Hz	-120dBc/Hz	
	Offset 100Hz	-135dBc/Hz	
	Offset 1KHz	-145dBc/Hz	
	Offset 10KHz	-150dBc/Hz	
Operating Temperature Range		-30~+85°C, -40~+85°C, or specify	
Storage Temperature Range		-55~+125°C	

## Dimensions

[mm]



Pin Connections	
Pin No.	Connection
#1	Output
#2	GND
#3	Vcont: EFC / NC: OCXO
#4	NC
#5	Vcc