

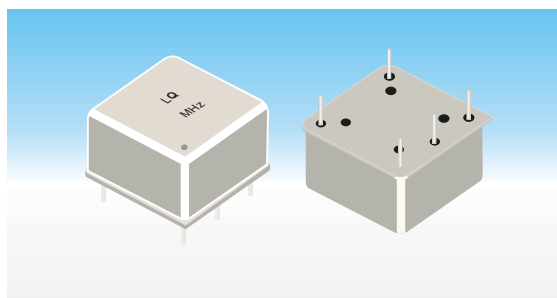
OCXO / oven Controlled Crystal Oscillator

3X Series Thru-hole 20×20 OCXO

5MHz~40MHz

O: CMOS

Size:20.6×20.6×11.0 mm



Features

- Dimension 20.6×20.6×11.0mm, all metal welded DIP package
- 3.3V /5.0V supply voltage
- Voltage control (Electronic Frequency Tuning) is standard
- Output wave: CMOS /Square wave
- High frequency range: 5MHz~40MHz
- SC-Cut crystal
- Application for SDH/SONET, Test & Instrumentation, Synthesizer, Digital switch, Reference timing circuit, etc
- RoHS Compliant /Pb Free

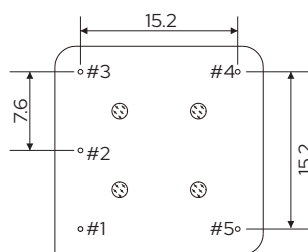
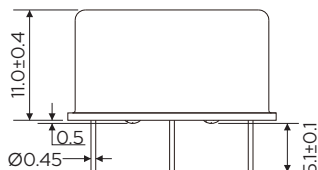
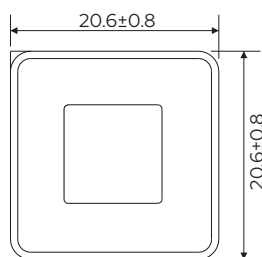


Standard Specifications

Item	Item	3X Series Thru-hole 20×20 OCXO
Output Frequency Range		5MHz~40MHz
Supply Voltage		3.3V /5.0V
Output Level		HCMOS "0" level 0.1×Vcc V max., "1" level 0.9×Vcc V min. Symmetry: 45~55%
Output Load		15pF
Power Consumption		1.3 Watts max. at steady-state; 800mA max. at turn-on.
Frequency Stability	vs. Initial Calibration Tolerance	±500ppb max.
	vs. Temperature	±5ppb~±10ppb max.
	vs. Supply Voltage	±0.5ppb max. (Vcc±5%)
	vs. Warm-up Time	3 minute max. Within ±50ppb 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	±0.4ppm~±3ppm
	Control Voltage Range	+0.5V~9.5V
	Transfer Function	Positive: Increasing control voltage increases output frequency
	Input Impedance	100KΩ min.
	EFC Linearity	±10% max.
Phase Noise @20MHz	Offset 10Hz	-115dBc/Hz
	Offset 100Hz	-135dBc/Hz
	Offset 1KHz	-145dBc/Hz
	Offset 10KHz	-150dBc/Hz
Operating Temperature Range		-30~+85°C, -45~+85°C, or specify
Storage Temperature Range		-55~+125°C

Dimensions

[mm]



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

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