

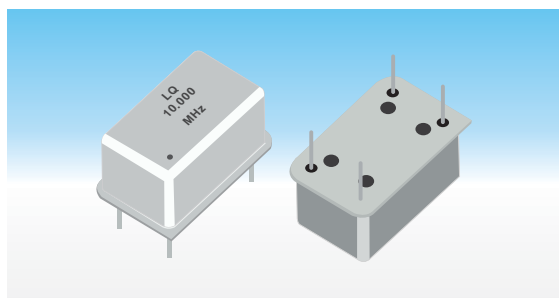
OCXO / Oven Controlled Crystal Oscillator

2X Series DIP-14 Full-Size OCXO

5MHz~100MHz

O: Sine Wave /CMOS

Size: 20.3×12.7×1.0 mm



Features

- All metal welded DIP-14 full-size package
- 3.3V / 5.0V supply voltage
- Voltage control (Electronic Frequency Tuning) is standard
- Output wave: Sine wave /HCMOS
- High frequency range: 5MHz~100MHz
- Fast warm-up
- Application for base station, Test & Instrumentation, Synthesizer, Digital switch, RTC clock, SDH/SONET, etc
- RoHS Compliant /Pb Free

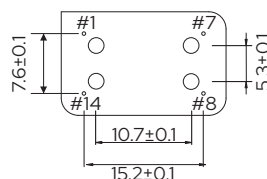
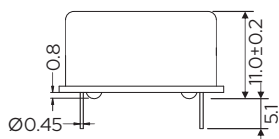
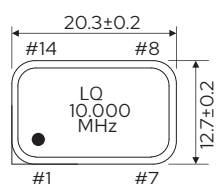


Standard Specifications

Item	Item	2X Series DIP-14 Full-size OCXO		
Output Frequency Range		5MHz~100MHz		5MHz~40MHz
Supply Voltage		3.3V /5.0V		
Output Level		Sine Wave 8dBm min. Harmonics: -30dBc max. Spurious: -80dBc max.	HCMOS "0" level 0.4V max. "1" level 3.8V min. Symmetry: 40~60%	Square Wave "0" level 0.1×Vcc V max., "1" level 0.9×Vcc V min. Symmetry: 45~55%
Output Load		50Ω	50KΩ //10pF	15pF
Power Consumption		1.2 Watts max. at steady-state; 600mA max. at turn-on.		
Frequency Stability	vs. Initial Calibration Tolerance	±200ppb max.		
	vs. Temperature	±50ppb~±200ppb max.		
	vs. Supply Voltage	±50ppb max. (Vcc±5%)		
	vs. Warm-up Time	10 minute max. Within ±100ppb of its reference frequency.		
	vs. Aging	±5ppb max./after 30 days ; ±500ppb 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	50KΩ min.		
	EFC Linearity	±10% max.		
Phase Noise @10MHz	Offset 10Hz	-70dBc/Hz		
	Offset 100Hz	-108dBc/Hz		
	Offset 1KHz	-140dBc/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	Vcont: EFC GND/NC: OCXO
#7	GND
#8	Output
#14	Vcc