

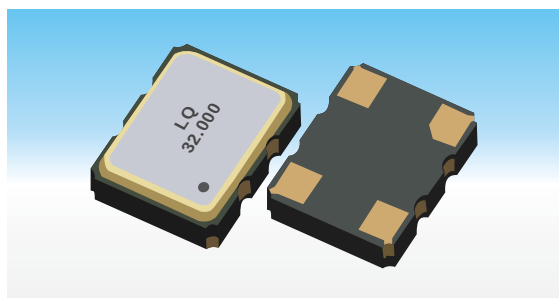
TCXO / Temperature Compensated Crystal Oscillator

7Q Series SMD 2520 TCXO/VC-TCXO

10MHz~60MHz

O: Clipped Sine Wave

Size: 2.5×2.0×0.7 mm



Actual size

Features

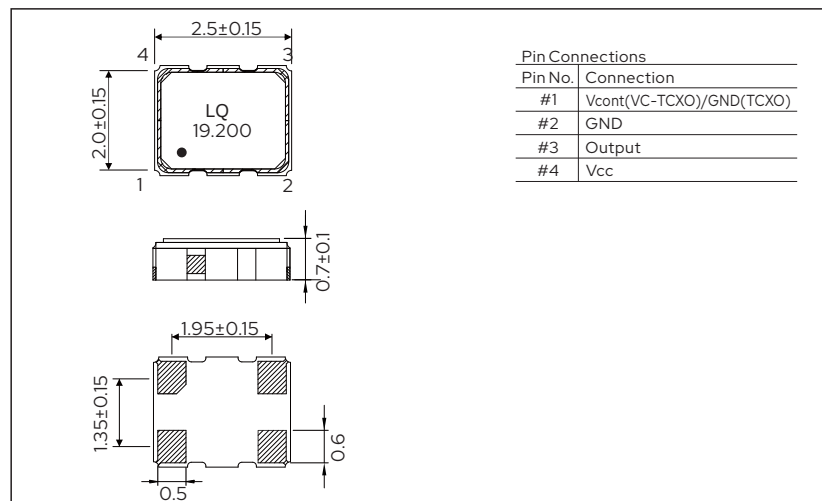
- 2520 size ultra miniature and lightweight SMD TCXO /VC-TCXO
- Low voltage operation
- Single package structure
- High frequency range: 16MHz~60MHz
- Low phase noise
- Application for GPS /GNSS, Mobile phone, Wearable device, IoT, Telecommunications, Industrial radio communications, etc
- RoHS Compliant /Pb Free



Standard Specifications

Item		Type	7Q Series SMD 2520 TCXO /VC-TCXO
Output Level			0.8Vp-p (Clipped Sine Wave/DC-coupled)
Output Load			10KΩ//10pF
Frequency Range			10MHz~60MHz
Supply Voltage			1.8V /2.5V /2.8V /3.0V /3.3V
Current Consumption			2.0mA max.
Stand-by Current			3μA max.
Frequency Stability	vs. Tolerance		±2.0ppm max. (After 2 reflows)
	vs. Temperature		±0.5ppm~±2.5ppm max.
	vs. Supply Voltage		±0.2ppm max. (Vcc±5%)
	vs. Load Variation		±0.2ppm max. (10KΩ//10pF±5%)
	vs. Aging		±1.0ppm max./year
Start-up Time			2.0ms max.
VC-TCXO	Frequency Control Range		±5.0ppm min.
	Control Voltage Range		0.9V±0.6V@Vcc=1.8V, 1.4V±1V@Vcc>=2.6V, 1.5V±1V@Vcc>=3.0V
	Input impedance		1MΩ min.
	Response Slope		Postivie
Phase Noise @19.2MHz	Offset 10Hz		-80dBc/Hz
	Offset 100Hz		-115dBc/Hz
	Offset 1KHz		-135dBc/Hz
	Offset 10KHz		-148dBc/Hz
Operating Temperature Range			-30~+85°C, -40~+85°C, or specify
Storage Temperature Range			-55~+125°C

Dimensions



Recommended Land Pattern [mm]

