

TL Type High Precision TCXO

5.0 x 3.2 mm SMD Voltage Controlled Temperature Compensated Crystal Oscillator

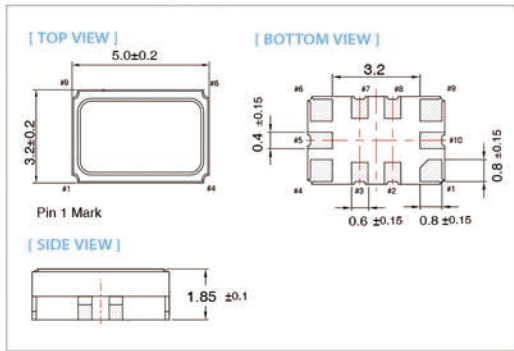
FEATURE

- Typical 5.0 x 3.2 x 1.85 mm ceramic SMD package.
- High Stability for Stratum III
- High Precision for $\pm 0.1\text{ppm}@-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$, $\pm 0.2\text{ppm}@-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$
- Frequency support from 10MHz to 50MHz
- Wide temperature range
- Tri-state Enable/Disable function
- Pb-free/RoHS compliant

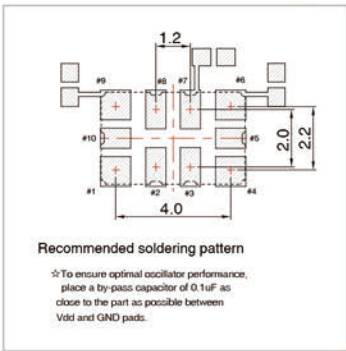
TYPICAL APPLICATION

- Time Synchronization
- Microwave Communication
- Test & Measurement
- Telecom Systems
- Satellite Communion

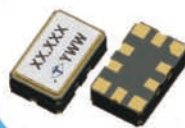
DIMENSION (mm)



SOLDER PAD LAYOUT (mm) PIN FUNCTION



Actual Size



RoHS Compliant

PIN#	FUNCTION
1	Vcon:VC-TCXO
2	NC
3	NC/Tri-state
4	GND
5	NC
6	Fout
7	NC/Filter Cap.
8	NC
9	VDD
10	NC

ELECTRICAL SPECIFICATION

Parameter		3.3V		2.5V		Unit
		Min.	Max.	Min.	Max.	
Supply Voltage Variation (VDD)		VDD-5%	VDD+5%	VDD-5%	VDD+5%	V
Frequency Range		10	52	10	52	MHz
Frequency Tolerance (@25°C)		-	±1.0	-	±1.0	ppm
Frequency Stability						
Vs Supply Voltage (±5%) change		-	± 0.1	-	± 0.1	ppm
Vs Load (±10%) change		-	± 0.05	-	± 0.05	ppm
Vs Aging (@ 1st year)		-	± 1.0	-	± 1.0	ppm
Output Waveform		CMOS				
Supply Current	10MHz ≥ Fo ≥ 38MHz	-	6.5	-	6.5	mA
	38MHz > Fo ≥ 52MHz	-	7.5	-	7.5	mA
Output Level	Output High	90%VDD	-	90%VDD	-	V
	Output Low	-	10%VDD	-	10%VDD	V
Transition Time (10% ~ 90%)	Rise Time	-	6.5	-	6.5	nSec
	Fall Time	-	6.5	-	6.5	nSec
Duty Cycle		45	55	45	55	%
Load		-	15	-	15	pF
Output Waveform		Clipped sine wave				
Supply Current	10MHz ≥ Fo ≥ 38MHz	-	4.5	-	4.5	mA
	38MHz > Fo ≥ 52MHz	-	5.0	-	5.0	mA
Output Level		0.8	-	0.8	-	Vp-p
Load		10KΩ // 10pF		10KΩ // 10pF		

Note: not all combination of options are available. Other specifications may be available upon request.

Specifications subject to change without notice.