TCXO

5.9 TC7050L

7.0 x 5.0 mm SMD Voltage Controlled Temperature Compensated Crystal Oscillator

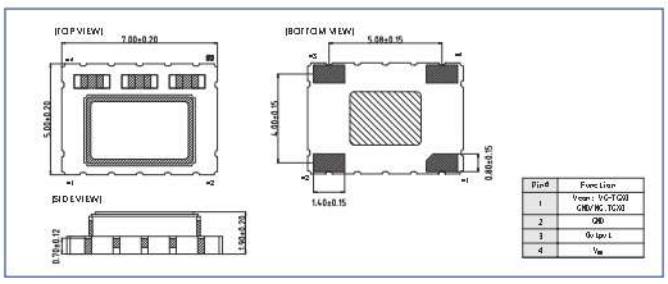
FEATURES

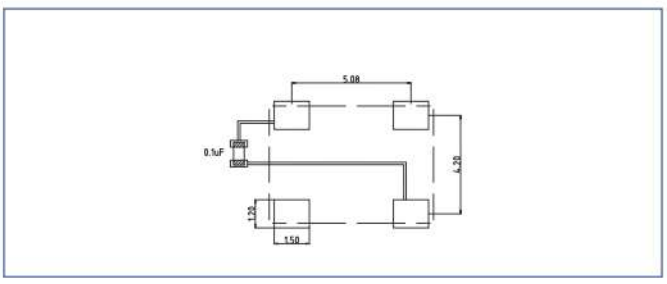
- Typical 7.0 x 5.0 x 1.9 mm ceramic SMD package
- For automatic assembly
- Compactness and light weight
- Low power consumption
- VCTCXO available

TYPICAL APPLICATION

- Femtocell, Base Stations
- WLAN/WiMAX/WIFI, Wireless Communications
- Mobile Phone

DIMENSIONS





ELECTRICAL SPECIFICATION

Parameter		3.3/3.0V		2.5V		Unit
		Min.	Max.	Min.	Max.	
Supply Voltage Variation (VDD)		Vdd-5%	Vdd+5%	Vdd-5%	Vdd+5%	V
Frequency Range		5	52	5	52	MHz
Standard Frequency(for COMS)		5, 6.4, 8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25, 26				
Standard Frequency(for Clipped Sine)		8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25, 26				
Frequency Tolerance*		—	±2.0	—	±2.0	ppm
Frequency stability	Vs Supply Voltage (±5%) change	—	±0.1	—	±0.1	ppm
	Vs Load (±10%) change	—	±0.2	—	±0.2	
	Vs Aging (@1st year)	—	±1.0	—	±1.0	ppm
Supply Current(CMOS output)		—	6	—	6	mA
Output Level (Clipped sine wave)		—	3.5	—	3.5	
Output Level(CMOS)	Output High	90%Vdd	—	90%Vdd	—	V
	Output Low	—	10%Vdd	—	10%Vdd	
	Duty	45	55	45	55	%
Output Level(Clipped sine)		0.8	—	0.8	—	Vp-p
Load(CMOS)		15pF		15pF		pF
Load(Clipped sine)		10KΩ // 10pF		10KΩ // 10pF		
Control Voltage Range(VCTCXO)		0.5	2.5	0.4	2.4	V
Pulling Range(VCTCXO)		±5.0	±12.0	±5.0	±12.0	ppm
Vc Input Impedance(VCTCXO)		100	—	100	—	KΩ
Phase Noise @ 19.2 MHz	100 Hz	-115		-115		dBc/Hz
	1 KHz	-135		-135		
	10 KHz	-148		-148		
Start time		—	2	—	2	mSec
Storage Temp. Range		-55	125	-55	125	℃

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.
*Frequency at 25℃, 1 hour after reflow.

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FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppm	±0.5	±1.0
-20 ~ +70	○	○
-30 ~ +85	○	○
-40 ~ +85	△	○

*o: Available Δ: Condition X: Not available

Note: not all combination of options are available. Other specifications may be available upon request.
Specifications subject to change without notice.