

FCom TCXO

Series FVT-7S-WT

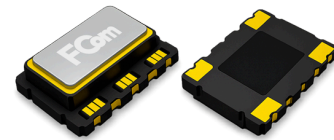
High Temperature TCXO 7.0×5.0 mm

Feature

- Typical 7.0 x 5.0 x 1.9 mm ceramic SMD package
- High Precision and High Temperature for -40°C~+95°C, ±0.1ppm, -40°C~+105°C, ±0.2ppm
- CMOS and Clipped Sine wave output optional

Application

- Femtocell , Base Stations
- WiMAX, WLAN, WIFI
- Wireless Communications



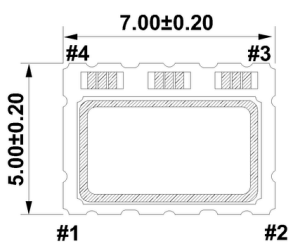
ELECTRICAL SPECIFICATIONS

Parameters		Symbol	3.3		2.5V		Units	Notes
			Min.	Max.	Min.	Max.		
Frequency Range		F	10~52				MHz	
Standard Frequency		F	10, 19.2, 20				MHz	
Supply Current	CMOS	Icc	-	8.0	-	8.0	mA	
	Clipped Sine Wave		-	5.0	-	5.0		
Frequency Tolerance		Ft	-	±1.5	-	±1.5	ppm	
Frequency stability	vs. Vdd	Fs	-	±0.1	-	±0.05	ppm	±5%
	vs. Load		-	±0.05	-	±0.05		±10%
	vs. Aging		-	±1.0	-	±1.0		@1st year
Output Level	Output High (Logic “1”)	V	90%VDD	-	90%VDD	-	V	CMOS
	Output Low (Logic “0”)		-	10%VDD	-	10%VDD		
	Duty	TH/T	45	55	45	55	%	
	Clipped Sine Wave	Vp-p	0.8	-	0.8	-	V	
Control Voltage Range			0.5	2.5	0.5	2.5	V	VCTCXO
Pulling Range			±5.0	-	±5.0	-	ppm	VCTCXO
Vc Input Impedance			100	-	100	-	kΩ	VCTCXO
Phase Noise @ 19.2 MHz	100 Hz	PN	-130		-130		dBc/Hz	
	1 kHz		-148		-148			
	10 kHz		-156		-156			
Output Loading	CMOS	RL // CL	15pF					
	Clipped Sine Wave		10 KΩ // 10pF					
Start-up Time		Tosc	5				mSec	Max

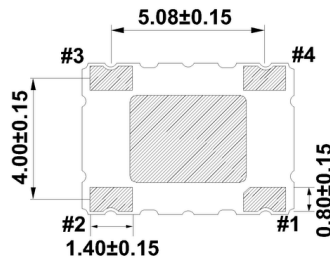
! Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

DIMENSION(mm)

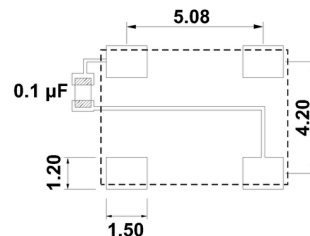
TOP VIEW



BOTTOM VIEW

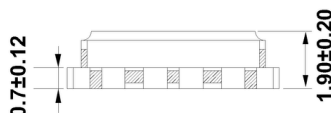


Solder Pad Layout(mm)



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1μF as close to the part as possible between Vdd and GND pads.

SIDE VIEW



PIN#	Function
1	VCON: VC-TCXO GND/NC: TCXO
2	GND
3	Output
4	VDD



FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	ppm	±0.05	±0.1	±0.2	±0.28	±0.5	±2.0
@-40~85°C	△	○	○	○	○	○	○
@-40~95°C	△	△	○	○	○	○	○
@-40~105°C	×	△	○	○	○	○	○

○: Available △: Conditional ×: Not available
Inclusive of calibration @25°C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration.