

FCom TCXO

Series FVT-5S

Standard TCXO 5.0×3.2 mm



Feature

- Typical 5.0 x 3.2 x 1.1 mm ceramic SMD package
- Low power consumption
- Compactness and lightweight
- Miniature size and low thickness

Application

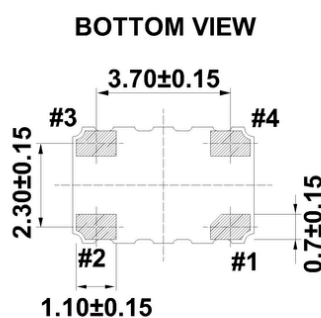
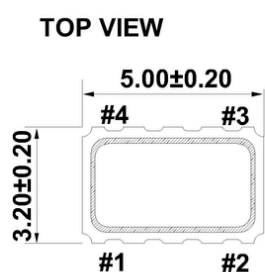
- GPS
- WiMAX, WLAN
- Mobile Phone
- Telecommunication

ELECTRICAL SPECIFICATIONS

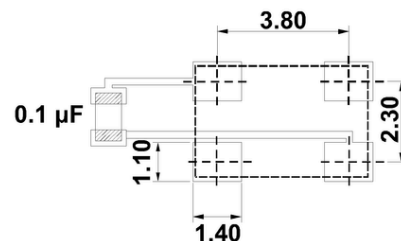
Parameters		Symbol	3.3 /3.0 /2.8 V		2.5V		1.8V		Units	Notes
			Min.	Max.	Min.	Max.	Min.	Max.		
Supply Voltage Variation		Vdd	2.66	3.465	2.375	2.625	1.71	1.89	V	
Frequency Range		F	10~52						MHz	
Standard Frequency		F	10, 12.8, 13, 16.368, 19.2, 19.44, 20, 25, 26, 27, 30 30.72, 32, 38.4						MHz	
Supply Current	10≤ Fos 26 MHz	Icc	-	1.5	-	1.5	-	1.5	mA	Clipped Sine Wave
	26≤ Fos 52 MHz		-	2.0	-	2.0	-	2.0		
Supply Current (CMOS)		Icc	-	10	-	7	-	5		
Frequency Tolerance		Ft	-	±2.0	-	±2.0	-	±2.0	ppm	
Frequency stability	vs. Vdd	Fs	-	±0.2	-	±0.2	-	±0.2	ppm	±5%
	vs. Load		-	±0.2	-	±0.2	-	±0.2		±10%
	vs. Aging		-	±1.0	-	±1.0	-	±1.0		@1st year
Control Voltage Range			0.5	2.5	0.4	2.4	0.3	1.5	V	VCTCXO
Pulling Range			±5.0	-	±5.0	-	±5.0	-	ppm	VCTCXO
Vc Input Impedance			500	-	500	-	500	-	kΩ	VCTCXO
Phase Noise @ 19.2 MHz	100 Hz	PN	-115		-115		-115		dBc/Hz	
	1 kHz		-135		-135		-135			
	10 kHz		-148		-148		-148			
Clipped Sine Wave	Output Level	V	0.8	-	0.8	-	0.8	-	V	
	Load	RL // CL	10 KΩ // 10pF						KΩ // pF	
CMOS	Output High	V	90%VDD	-	90%VDD	-	90%VDD	-	V	
	Output Low	V	-	10%VDD	-	10%VDD	-	10%VDD	V	
	Load	pF	-	15	-	15	-	15	pF	
Start-up Time		Tosc	2						mSec	Max

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

DIMENSION(mm)

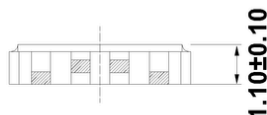


Solder Pad Layout(mm)



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

o: Available △: Conditional x: Not available

Inclusive of calibration @25°C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration.

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	± 0.5	± 1.0	± 1.5	± 2.0	± 2.5
@-20~70°C	o	o	o	o	o
@-30~85°C	o	o	o	o	o
@-40~85°C	o	o	o	o	o