

FCom Crystal Oscillator

Series FCO-1C

Standard Clock Oscillator 1.6×1.2 mm



Feature

- Typical 1.6×1.2mm SMD package
- Wide temperature range from -40 to +125°C
- Tri-state enable / disable mode
- RoHS and REACH Compliant , Pb-free

Application

- WLAN
- Mobile Phone
- DSC, Set-top Box, HDTV
- Health and Wellness Monitors

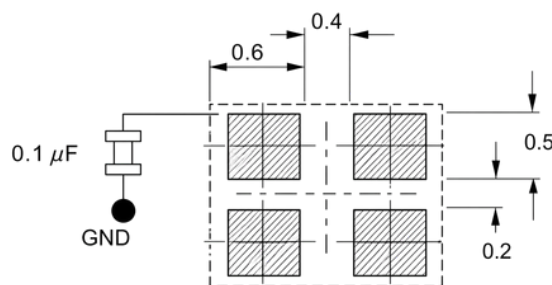
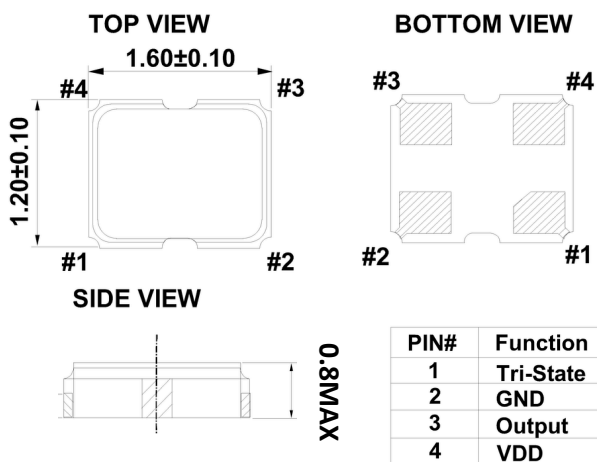
ELECTRICAL SPECIFICATIONS

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Frequency Range	F	3~60			MHz	
Standard Frequency	F(ST)	10,12,12.288,19.2,20,24,25,40,50			MHz	
Supply Voltage	Vdd	1.8V	2.5V	3.3V	V	Typ.
Current Consumption	Icc	-		15	mA	
Stand by Current	Icc(ST)	-	-	10	uA	
Output Load (CMOS)	CL	15			pF	
Output Level	VoH	90% Vdd	-	-	V	Output High
	VoL	-	-	10% Vdd	V	Output Low
Rise Time / Fall Time	Tr / Tf	-	-	10	nSec	@20% - 80%
Tri-State Mode (Input to Pin 1)	VIH	70% Vdd	-	-	V	Enable
	VIL	-	-	30% Vdd	V	Disable
Period Jitter	Pk	-	-	40	ps	
RMS Phase Jitter	PJ	-	-	1.0	ps	Integrated 12kHz~20MHz
Duty Cycle	TH/T	45	~	55	%	
Start-up Time	Tosc	-	-	2	mSec	
Aging	ppm/yr	±5			ppm/yr	1st. Year at 25°C

Test condition
Ambient temperature:
25 ± 5°C
Relative humidity:
40% ~ 70%

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

DIMENSION(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.

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	ppm	± 20	± 25	± 50	± 100
@-20~70°C		○	○	○	○
@-40~85°C		△	○	○	○
@-40~105°C		△	○	○	○
@-40~125°C		×	×	○	○

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