

FCom Crystal Oscillator

Series FCO-3C-HP

High Precision Oscillator 3.2×2.5 mm



Feature

- Tight frequency stability:
 - ± 10 ppm over -40°C to 85°C
 - ± 15 ppm over -40°C to 95°C
- LVCOMS Output Logic
- Operation voltage: 1.8V, 2.5V, 3.3V
- Wide frequency range : 2.5MHz~60MHz

Application

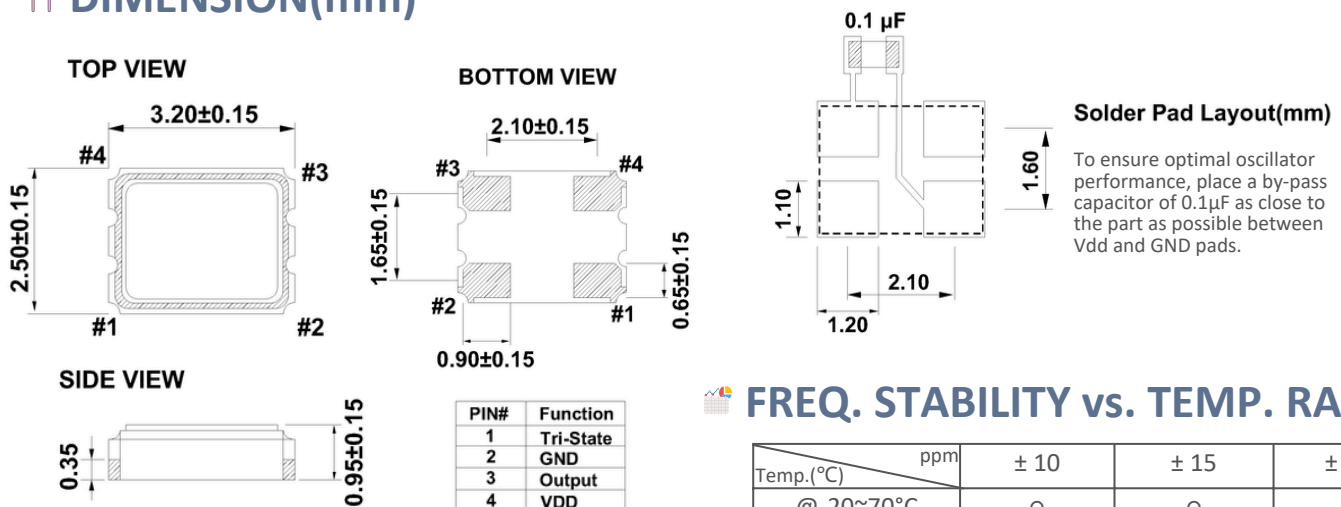
- Wireless Connectivity
- Mobile device
- Smart meter

ELECTRICAL SPECIFICATIONS

Parameters		Symbol	Min.	Typ.	Max.	Units	Notes	
Frequency Range		F	2.5~60			MHz		Test condition Ambient temperature : 25 ± 5°C Relative humidity : 40% ~ 70%
Standard Frequency		F(ST)	24, 25, 32			MHz		
Supply Voltage		Vdd	1.8V	2.5V	3.3V	V	Typ.	
Current Consumption	@15pF Load	Icc	4	5	6	mA	Max.	
Duty Cycle		TH/T	40/60	45/55	45/55	%		
Transition Time	Rise Time	Tr/Tf	-	-	6	nSec	Max. @10% ~ 90%, load 15pF	
	Fall Time		-	-	6			
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	
Tri-State Mode (Input to Pin 1)		VIH	70% Vdd	-	-	V	Enable	
		VIL	-	-	30% Vdd	V	Disable	
RMS Phase Jitter		PJ	-	-	0.5	pSec	Integrated 12 KHz~20 MHz	
Start-up Time		Tosc	-	-	2	mSec		
Aging		ppm/yr	±3			ppm/yr	1st. Year at 25°C	

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

DIMENSION(mm)



FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppm	± 10	± 15	± 20
@-20~70°C	○	○	○
@-30~85°C	○	○	○
@-40~85°C	○	○	○
@-40~95°C	×	○	○

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