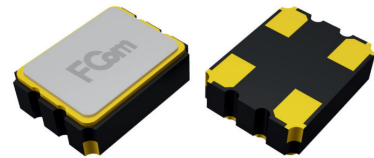


FCom Extended Temp. OSC

Series FCO-3C-WT



Super-wide Oper. Temp. SMD OSC 3.2×2.5 mm

Feature

- Operating Temp. Range -55°C to 125°C available
- Low jitter and phase noise
- Operation voltage: 1.8V, 2.5V, 3.3V
- Tight symmetry (45 to 55%) available
- Tri-state enable/disable

Application

- Extreme environment applications
- Oil drilling, geothermal
- Commercial space, car/aircraft engine, aerospace & military
- Industrial instrumentation, Automotive

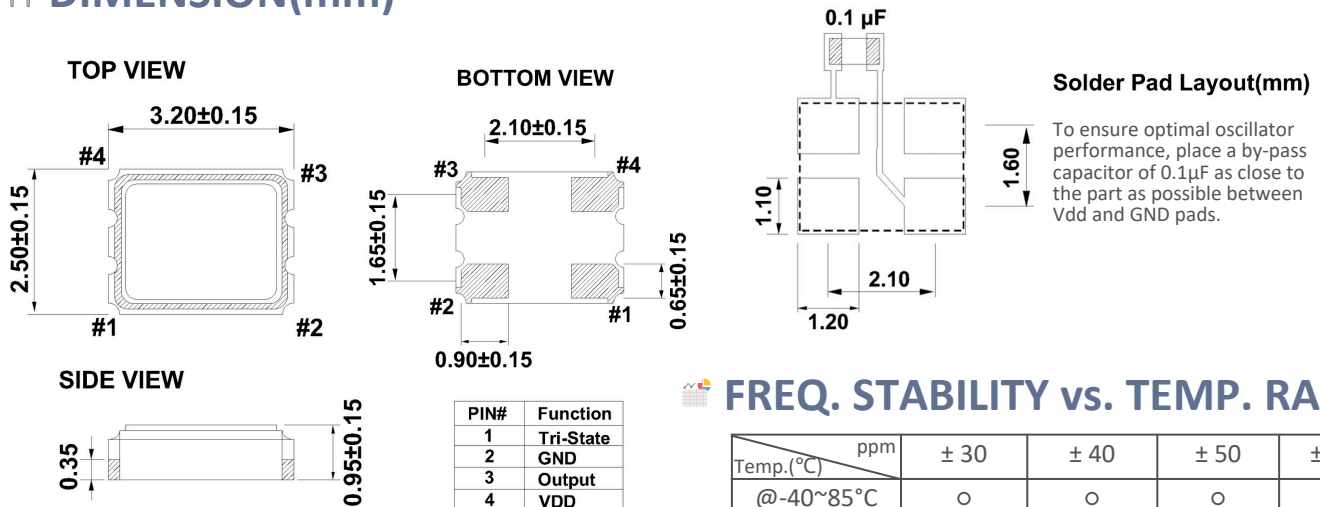
ELECTRICAL SPECIFICATIONS

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Frequency Range	F	1.25~100			MHz	
Supply Voltage	Vdd	1.8V	2.5V	3.3V	V	Typ.
Current Consumption	Fo ≤ 80 MHz	5	8	10	mA	Max.
	Fo > 80 MHz	8	10	15		
Transition Time	Rise/Fall Time	5	4	3	nSec	Max. @10% ~ 90%, load 15pF
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
Period Jitter	Pk	-	-	40	pSec	
RMS Phase Jitter	PJ	-	0.2	1.0	pSec	Integrated 12 KHz~20 MHz
Duty Cycle	TH/T	45	~	55	%	
Start-up Time	Tosc	-	-	2	mSec	
Aging	ppm/yr	±3			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)



○: Available △: Conditional ×: 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)	ppm	± 30	± 40	± 50	± 100
@-40~85°C	○	○	○	○	○
@-40~105°C	△	○	○	○	○
@-40~125°C	×	×	△	○	○
@-55~125°C	×	×	×	×	○