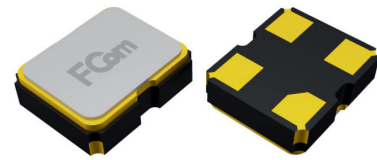


FCom Low EMI OSC

Series FCO-2C-LE



Low EMI SMD Crystal Oscillator 2.5×2.0 mm

Feature

- Typical 2.5×2.0×0.81mm SMD package
- Reduces EMI by approx. 7dB ~ 15dB
- Operation voltage: 1.8V, 2.5V, 3.3V
- Tri-state enable/disable

Application

- IP Camera, LED Module
- Media Players, Surveillance

ELECTRICAL SPECIFICATIONS

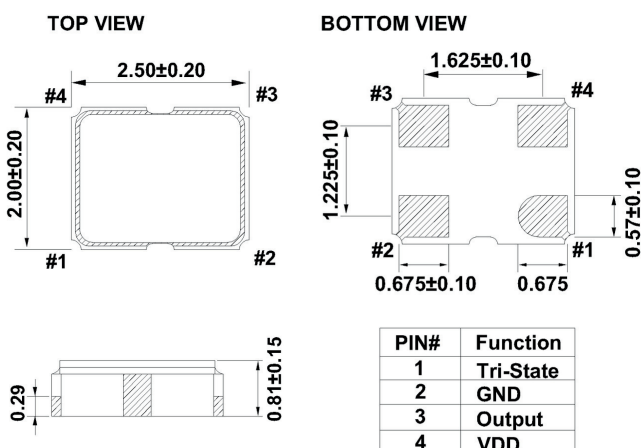
Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Frequency Range	F	16~40			MHz	Test condition Ambient temperature: 25 ± 5°C Relative humidity: 40% ~ 70%
Standard Frequency	F(ST)	24, 25			MHz	
Modulation Carrier Frequency	Mf	20	-	52	kHz	
Supply Voltage	Vdd	1.8V	2.5V	3.3V	V	
Current Consumption	Icc	1.5/4	2.5/5	2.5/6	mA	
Transition Time:	Rise Time	Tr/Tf	5	5	5	
	Fall Time		5	5	5	
Stand by Current	Icc(ST)	-	-	1.2	mA	
Output Load (CMOS)	CL	15			pF	
Output Level	VoH	90% Vdd	-	-	V	
	VoL	-	-	10% Vdd	V	
Tri-State Mode (Input to Pin 1)	VIH	70% Vdd	-	-	V	
	VIL	-	-	30% Vdd	V	
Duty Cycle	TH/T	45	~	55	%	
Start-up Time	Tosc	-	-	5	mSec	
Aging	ppm/yr	±3			ppm/yr	

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

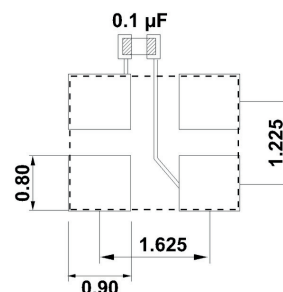
SPREAD TABLE

Spread Type				
Down Spread	-2.00%	-1.50%	-1.00%	-0.80%
Center Spread	± 1.00%	± 0.75%	± 0.50%	± 0.40%

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.



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.

FREQ. STABILITY vs. TEMP. RANGE

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