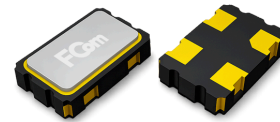


FCom Crystal Oscillator

Series FCO-5P-LE

Spread Spectrum Oscillator 5.0×3.2 mm



Feature

- Typical 5.0×3.2×1.2mm SMD package
- Reduces EMI by approx. 12dB ~ 18dB
- Operation voltage: 2.5V, 3.3V
- Tri-state enable/disable

Application

- IP Camera, LED Module
- Media Players, Surveillance
- Medical Equipments

ELECTRICAL SPECIFICATIONS

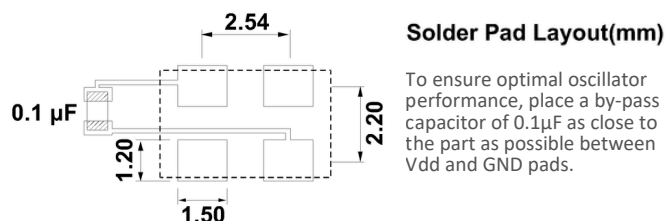
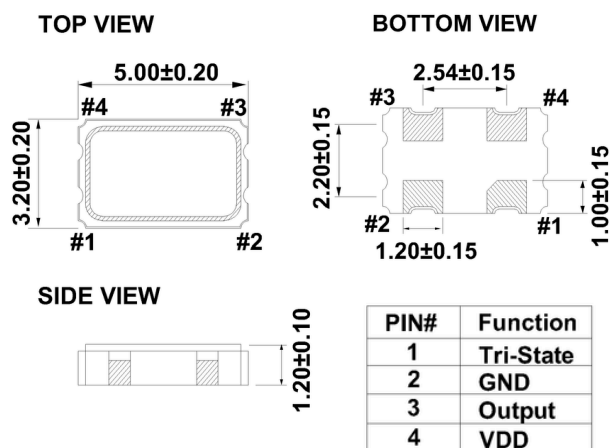
Parameters		Symbol	Min.	Typ.	Max.	Units	Notes
Frequency Range		F	3 ~ 200			MHz	
Standard Frequency		F(ST)	24, 25			MHz	
Modulation Carrier Frequency		Mf	30	-	40	kHz	Reference F0
Supply Voltage		Vdd	-	2.5V	3.3V	V	Typ.
Current Consumption	3 ~ 100 MHz	Icc	-	20	20	mA	
	101 ~ 200 MHz	Icc		30	30	mA	
Transition Time:	Rise Time	Tr/Tf	-	5	5	nSec	@10% ~ 90% Vdd
	Fall Time		-	5	5		
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
Duty Cycle		TH/T	45	~	55	%	
Start-up Time		Tosc	-	-	100	nSec	Start from t= 0 to 90% Vdd
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.

SPREAD TABLE

Spread Type	
Down Spread	-0.25% to -4.0% in 0.25% steps
Center Spread	±0.125% to ±2.0% in ±0.125% steps

DIMENSION(mm)



FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	ppm	± 25	± 50
@-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.