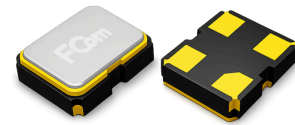


FCom Crystal Oscillator

Series FCO-6K-UC

32.768 kHz Low Current Oscillator 2.0×1.6 mm



Feature

- Typical 2.0×1.6×0.75mm SMD package
- Operation supply voltage: 1.5V, 1.8V
- Ultra-Low current: 1.4uA typical
- RoHS and REACH Compliant , Pb-free
- Frequency Stability ± 25 ppm over -40~85°C @3days Average

Application

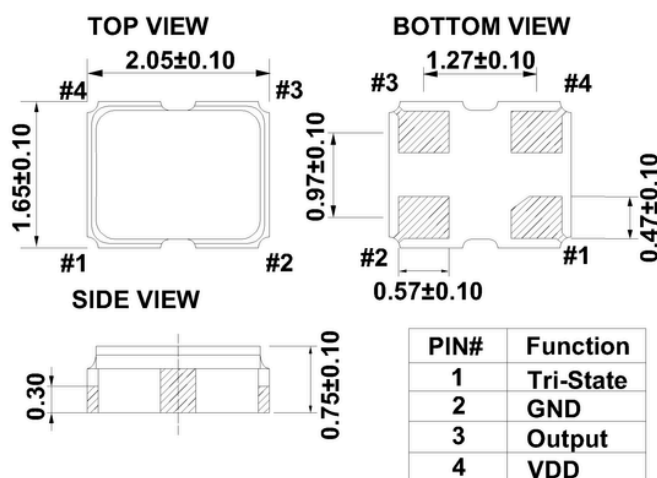
- RTC Reference Clock
- Wearable device, Sport Video Cams
- Ultra-small Notebook PC
- Mobile Phones
- Health and Wellness Monitors

ELECTRICAL SPECIFICATIONS

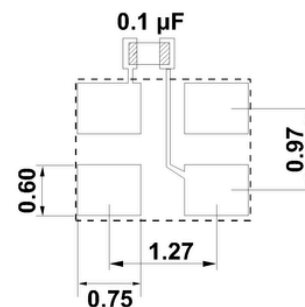
Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	32.768			kHz	Test condition Ambient temperature: 25 ± 5°C Relative humidity: 40% ~ 70%
Frequency Tolerance	FT	± 10			ppm	
Supply Voltage	Vdd	1.5V, 1.8V			V	
Frequency vs Temperature	FS	± 25			ppm	
Current Consumption	Icc	-	1.4	1.8	uA	
Output Level	VoH	90% Vdd	-	-	V	
	VoL	-	-	10% Vdd	V	
Rise Time / Fall Time	Tr / Tf	-	-	10	nSec	
Duty Cycle	TH/T	45	~	55	%	
Start-up Time	Tosc	-	-	8	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)



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	± 20	± 25	± 50
@-20~70°C		○	○	○
@-40~85°C		×	○	○
@-40~105°C		×	△	○

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