

FCom Crystal Oscillator

Series FCO-3K

32.768 kHz Oscillator 3.2×2.5 mm



Feature

- Typical 3.2×2.5×0.95mm SMD package
- Low Power Supply Voltage: 1.8V, 2.5V and 3.3V Supply Options
- RoHS and REACH Compliant , Pb-free

Application

- RTC Module
- Smartphone
- IoT
- Wearable Device

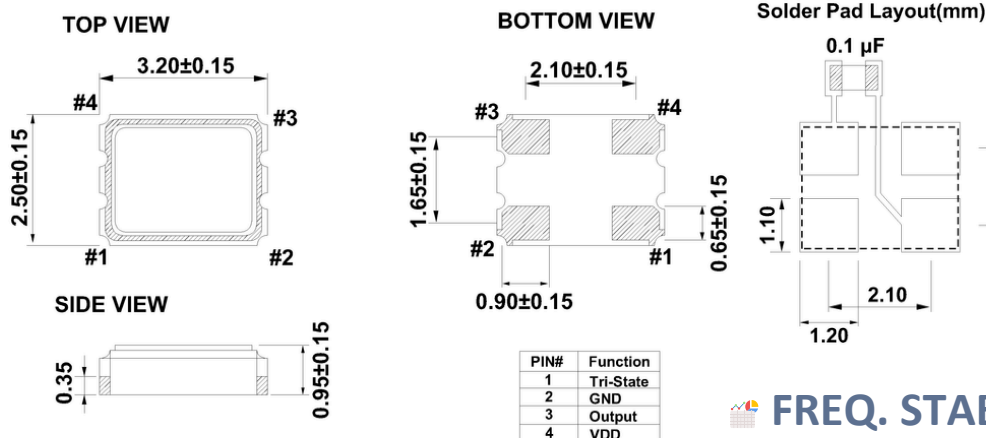
ELECTRICAL SPECIFICATIONS

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	32.768			kHz	
Frequency Tolerance	FT	± 10			ppm	@25°C±3°C
Supply Voltage	Vdd	1.8V, 2.5V, 3.3V			V	@No load
Current Consumption	Icc	-		35	uA	@No load
Stand by Current	Icc(ST)	-	-	3	uA	
Output Load (CMOS)	CL	15			pF	
Output Level	VoH	90% Vdd	-	-	V	Output High
	VoL	-	-	10% Vdd	V	Output Low
Rise Time / Fall Time	Tr / Tf	-	-	15	nSec	@10%-90%
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	-	-	20	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)



FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	ppm	± 25	± 30	± 50
@-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.