

Ultra-low Current 32.768kHz For RTC Reference Clock

Features

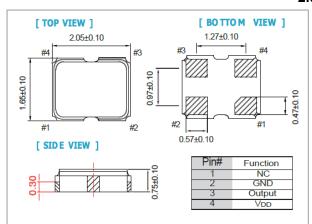
- Operation supply voltage: 1.5V, 1.8V
- RTC frequency 32.768kHz
- Ultra-Low current: 1.4uA typical.
- Frequency Stability ± 25ppm over -40°C to 85°C @3days Average
- Pb-free/RoHS compliant
- 2.0x1.6mm, 1.6x1.2mm

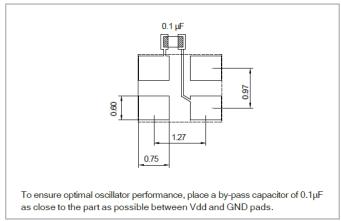
Applications

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

DIMENSION(mm)

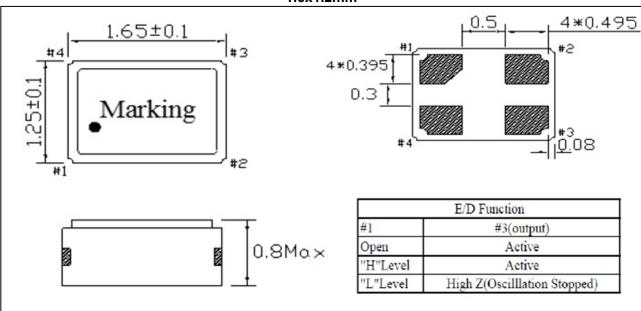
2.0x1.6mm





SOLDER PAD LAYOUT(mm)

1.6x1.2mm



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ELECTRICAL SPECIFICATION:

Parameters		1.5V		1.8V		11-4:4
		Min	Max	Min	Max	—Unit
Supply Voltage Variation		V _{DD} -5%	V _{DD} +5%	V _{DD} -5%	V _{DD} +5%	V
Frequency		32.768				KHz
Frequency Tolerance (@ 25°C, 3 days average)		-10	10	-10	10	ppm
Frequency vs Temperature (@-40 to +85°C with reference to + 25°C,3days average)		-25	25	-25	25	ppm
Supply Current (@No load)		Тур. 1.4	1.8	Тур. 1.4	1.8	uA
Output Level	Output High	90% VDD	-	90% VDD	-	V
	Output Low	-	10%VDD	-	10%VDD	V
Transition Time @10%-90%	Rise Time / Fall Time	-	10	-	10	nSec
Duty Cycle		45	55	45	55	&
Startup Time		-	8	-	8	mSec
Aging (@ 25oC, First Year)		-	±3	-	±3	ppm
Storage Temp. Range		-55	125	-55	125	°C

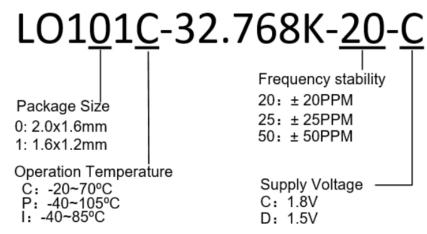


FREQ. STABILITY vs. TEMP. RANGE

ppm Temp.(°C)	±20	±25	±50
-20 ∼+70	Δ	0	0
-40∼+85	Х	0	0
-40~+105	Х	Δ	0

 $^{*}O$: Available Δ : Conditional X: Not available * Inclusive of calibration @ 25 $^{\circ}C$, operating temperature rrange,input Voltage variation,load variation,aging (1st year),shock,and vibration

Ordering information



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