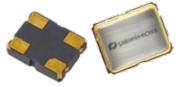


Ultra Low Current KX Series Crystal Oscillator

3.2 x 2.5mm

CMOS 32.768kHz





3.2 x 2.5mm Ceramic SMD

Product Features

- AT Cut 32.768 kHz XO
- CMOS compatible logic levels
- Ultra low active current (< 10μ A)
- Very tight temperature stability
- Designed for standard reflow and washing techniques
- Pb-free and RoHS/Green compliant

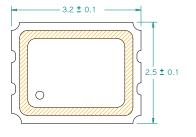
Product Description

The KX321 Series real time clock oscillator achieves superb stability over a broad range of operating conditions. It utilizes Pericom proprietary technology to achieve ultra low current less than 10μ A. The output clock signal is compatible with LVCMOS/LVTTL logic levels. The device, available on tape and reel, is contained in a 3.2 x 2.5mm surface-mount ceramic package.

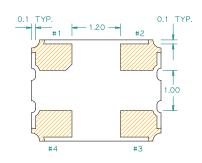
Applications

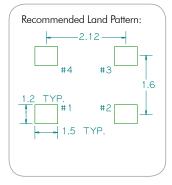
• Real-Time Clock Oscillator where low current and tight stability are needed

Package: (Scale: none; Dimensions are in mm)





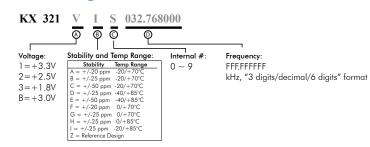




Pin Functions:

Pin	Function					
1	OE Function					
2	Ground					
3	Clock Output					
4	V _{DD}					

Part Ordering Information:



Following the above format, SaRonix-eCera part numbers will be assigned upon confirmation of exact customer requirements.

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14-0034

08/28/2014

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Ultra Low Current KX Series Crystal Oscillator 3.2 x 2.5mm

Electrical Performance

Parameter	Min.	Тур.	Max.	Units	Notes	
Output Frequency		32.768		kHz		
Supply Voltage	+1.71	+1.8	+1.89	V		
	+2.25	+2.5	+2.75	V		
	+2.85	+3.0	+3.15	V	See part ordering options	
	+3.0	+3.3	+3.6	V		
Supply Current, Output Enabled		10	15	μΑ	At 15pF load	
Supply Current, Standby Mode			0.5	μΑ	Output Hi-Z	
Frequency Stability			±50	ppm	See part ordering options, and note 1	
Operating Temperature Range	-40		+85	C	See part ordering options	
Output Logic 0, V _{OL}			0.1 V _{DD}	V		
Output Logic 1, V _{OH}	0.9 V _{DD}			V		
Output Load			15	pF	See Note 2	
Duty Cycle	45		55	%	measured 50% of V _{DD}	
Rise and Fall Time		35	50	ns	measured 20/80% of V _{DD}	
Start-up time			10	ms		

Notes:

As specified. Stability includes all combinations of operating temperature, load changes, rated input (supply) voltage changes, initial calibration tolerance 1. (25°C), aging (1 year at 25°C average effective ambient temperature), shock and vibration.

For specifications other than those listed, please contact sales. 2

Output Enable / Disable Function

Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (pin 1), Output Enable	0.7 V _{DD}			V	or open
Input Voltage (pin 1), Output Disable (low power standby)			0.3 V _{DD}	V	Output is Hi-Z
Internal Pullup Resistance		100		kΩ	
Output Disable Delay			100	ns	
Output Enable Delay			10	ms	

Absolute Maximum Ratings

Parameter	Min.	Тур.	Max.	Units	Notes
Storage Temperature	-55		+125	°C	

For the latest product information visit: http://www.pericom.com/products/timing/oscillators/KX321/

For test circuit go to: http://www.pericom.com/pdf/sre/tc_cmos2.pdf

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For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

For tape and reel information go to: http://www.pericom.com/pdf/sre/tr_3225_xo.pdf

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