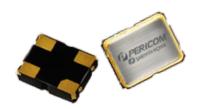
2.5 x 2.0mm

CMOS 32.768kHz

KX251



2.5 x 2.0mm Ceramic SMD

Product Features

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

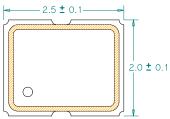
Product Description

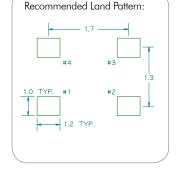
The KX251 Series real time clock oscillator achieves superb stability over a broad range of operating conditions. It utilizes Pericom proprietary technology to achieve ultra low current less than 10µA. The output clock signal is compatible with LVCMOS/LVTTL logic levels. The device, available on tape and reel, is contained in a 2.5 x 2.0mm surface-mount ceramic package.

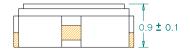
Applications

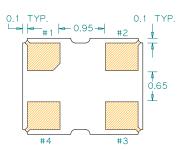
 Real-Time Clock Oscillator where low current and tight stability are needed

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





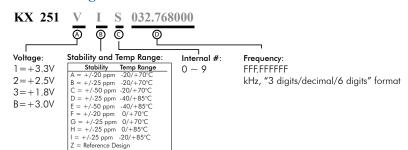




Pin Functions:

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.

SaRonix-eCera[™] is a Pericom® Semiconductor company

14-0033

• US: +1-408-435-0800 TW: +886-3-4518888

• www.saronix-ecera.com





Ultra Low Current KX Series Crystal Oscillator 2.5 x 2.0mm

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	Carant and anima antima
	+2.85	+3.0	+3.15	V	See part ordering options
	+3.0	+3.3	+3.6	V	
Supply Current, Output Enabled		10	15	μА	At 15pF load
Supply Current, Standby Mode			0.5	μА	Output Hi-Z
Frequency Stability			±50	ppm	See part ordering options, and note 1
Operating Temperature Range	-40		+85	С	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	

- Stability includes all combinations of operating temperature, load changes, rated input (supply) voltage changes, initial calibration tolerance (25°C), aging (1 year at 25°C average effective ambient temperature), shock and vibration.
- For specifications othere than those listed, please contact sales.

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/KX251/

For test circuit go to: http://www.pericom.com/pdf/sre/tc hcmos2.pdf

14-0033

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: $\underline{\text{http://www.pericom.com/pdf/sre/tr}} \ \ 2520 \ \ \text{xo.pdf}$

SaRonix-eCera[™] is a Pericom® Semiconductor company • US: +1-408-435-0800 TW: +886-3-4518888 www.saronix-ecera.com



KX251 REV C

单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))