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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3.3V CMOS Low-Jitter 75 MHz SAS-2 XO

FNSAS2075



7.0 x 5.0mm Ceramic SMD

ASSP XO™ for Storage



Product Features

- Very low phase jitter 0.5ps RMS
- Thicker crystal for improved reliability
- Low output current 20mA max.
- Low power stand by mode
- Industrial Temperature Range
- Pb-free & RoHS compliant

Product Description

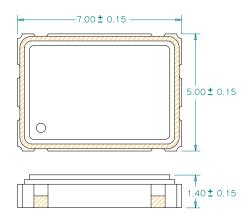
This is an enhanced high-frequency 3.3V, 75MHz crystal clock oscillator with superb jitter and low operating current for Serial Attached SCSI (SAS-1 & SAS-2) applications.

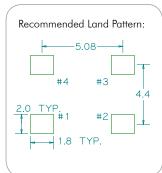
The output clock signal, generated internally with a patented oscillator design, is compatible with LVCMOS logic levels.

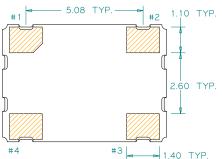
Applications

- SAS-2 Host Bus Adapter (HBA)
- SAS-2 Expander
- SAS-2 RAID System

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







Pin Functions:

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

*Extended high frequency power decoupling is recommended (see test circuit for minimum recommendation). To ensure optimal performance, do not route RF traces beneath the package.

Part Ordering Information:

FNSAS2075

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





Application Specific Crystal Oscillator 7.0 x 5.0mm

Electrical Performance

Parameter	Min.	Тур.	Max.	Units	Notes
Output Frequency		75		MHz	
Supply Voltage	2.97	3.3	3.63	V	
Supply Current, Output Enabled			20	mA	
Supply Current, Output Disabled			10	μΑ	
Frequency Stability			±50	ppm	See Note 1 below
Operating Temperature Range	-20		+70	°C	
Output Logic 0, V _{OL}			10% V _{DD}	V	
Output Logic 1, V _{OH}	90% V _{DD}			V	
Output Load			15	pF	
Duty Cycle	45		55	%	Measured 50% V _{DD}
Rise and Fall Time			3.5	ns	Measured 20/80% of waveform
Jitter, Phase RMS (1-σ)		0.25	0.5	ps	12kHz to 20 MHz frequency band
Jitter, pk-pk		21	30	ps	100.000 random periods

Notes:

- 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	30			kΩ	
Output Disable Delay			200	ns	
Output Enable Delay			2	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/crystals-and-crystal-oscillators/assp-xo/?part=FNSAS2075

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

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

For typical phase noise go to: http://www.pericom.com/pdf/sre/pn FNSAS2075.pdf

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