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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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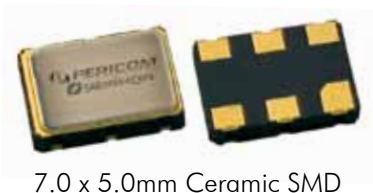
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3.3V CMOS 125.000MHz Ethernet VCXO

YNETHE125



7.0 x 5.0mm Ceramic SMD

ASSP VCXO™ for Ethernet



Product Features

- Very low Pk to Pk jitter - 40ps Max
- Low supply current - 20mA Max
- Low power standby mode
- RoHS Compliant

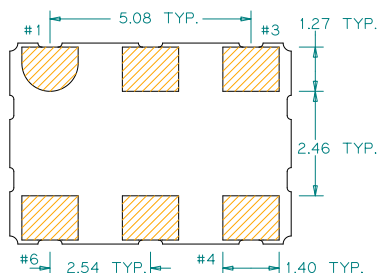
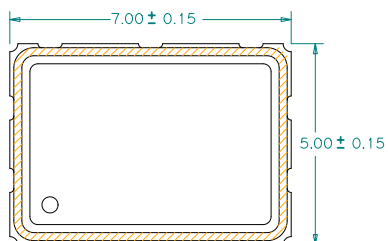
Product Description

This is an enhanced 3.3V, 25.000MHz with superb jitter and low operating current for providing clock references in Ethernet applications.

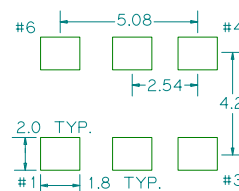
Applications

- Ethernet

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



Recommended Land Pattern:



Pin Functions:

Pin	Function
1	Control Voltage
2	Enable/Disable
3	Ground
4	Output
5	N/C
6	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:
YNETHE125

**ASSP VCXO****Application Specific Voltage Controlled
Crystal Oscillator 7.0 x 5.0mm****Electrical Performance**

Parameter	Min.	Typ.	Max.	Units	Notes
Output Frequency		125.000		MHz	
Supply Voltage V_{DD}	3.135	3.3	3.465	V	
Supply Current, Output Enabled			20	mA	
Frequency Stability			± 50	ppm	See Note 1 below
Operating Temperature Range	-40		+85	$^{\circ}\text{C}$	
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			5	ns	Measured 20/80% of waveform
Jitter, Phase RMS(1- σ)			1	ps	12kHz~20 MHz Frequency Band
Jitter, Peak to Peak (Pk-Pk)			40	ps	100.000 Random Periods

Notes:

- Stability includes all combinations of operating temperature, load changes, rated input (supply) voltage changes, initial calibration tolerance (25 $^{\circ}\text{C}$), aging (10 years at +40 $^{\circ}\text{C}$ average effective ambient temperature), shock and vibration.
- For specifications other than those listed, please contact sales.

Voltage Control Function

Parameter	Min.	Typ.	Max.	Units	Notes
Absolute Pull Range (APR)	± 50			ppm	See 1 below
Control Voltage Range	0.3		3.0	V	As rated
Center Control Voltage		1.65		V	For RMT Nominal Frequency
Monotonic Linearity			10	%	Positive Transfer Slope
Input Impedance	130			k Ω	Control Voltage Pin

Notes:

- APR is relative to the nominal output frequency; APR is inclusive of frequency deviation due to stability.

Output Enable / Disable Function

Parameter	Min.	Typ.	Max.	Units	Notes
Input Voltage (pin 2), Output Enable	3.0			V	or open
Input Voltage (pin 2), Output Disable (low power standby)			0.3	V	Output is Hi-Z

Absolute Maximum Ratings

Parameter	Min.	Typ.	Max.	Units	Notes
Storage Temperature	-55		+125	$^{\circ}\text{C}$	

For the latest product information visit: <http://www.pericom.com/products/crystals-and-crystal-oscillators/assp-xo/?part=YNETHE125>

For test circuit go to: http://www.pericom.com/pdf/sre/tc_vc6cmos.pdf

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_7050_xo.pdf