

2.5/3.3V CMOS XO

WX701



7.0 x 5.0mm Ceramic SMD

Product Features

- Very low phase jitter 1.0ps RMS
- Thicker crystal for improved reliability
- Industrial Temperature Range
- Pb-free & RoHS compliant

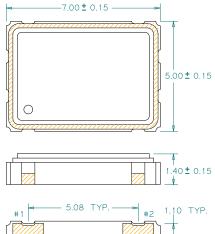
Product Description

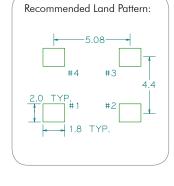
The WX701 XO series is a high performance CMOS crystal oscillator family with very low jitter performance. It supports various options including wider frequency range, 2.5/3.3 voltage, various stabilities, and different package sizes. It is designed to meet the clock source specifications for communication systems, and other high performance equipment.

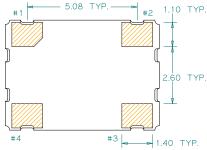
Applications

- Networking systems
- Servers and storage systems
- Profession video equipments
- Test and measurement
- FPGA/ASIC clock generation

Package:





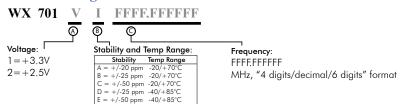


Pin Functions:

Pin	Function
1	OE
2	GND
3	Output
4	$V_{ m DD}$

^{*}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:



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Ultra Low Jitter CMOS Crystal Oscillator 7.0 x 5.0mm

Electrical Performance

Parameter	Min.	Тур.	Max.	Units	Notes
Output Frequency	50		212.5	MHz	
Complex Valtage	3.135	3.3	3.465	V	Con and anima antisma
Supply Voltage	2.375	2.5	2.625	V	See ordering options
Supply Current, Output Enabled			70	mA	
Supply Current, Output Disabled			50	mA	
Frequency Stability			±50	ppm	See ordering options
Operating Temperature Range	-40		+85	°C	See ordering options
Output Logic 0, V _{OL}			0.4	V	
Output Logic 1, V _{OH}	V _{DD} -0.4			V	
Output Load			15	pF	
Duty Cycle	45		55	%	Measured 50% V _{DD}
Rise and Fall Time			1.5	ns	Measured 20/80% of waveform
Jitter, Phase RMS (1-σ)			1	ps	12kHz to 20 MHz frequency band
Jitter, pk-pk			30	ps	100,000 random periods

Notes:

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		$k\Omega$	
Output Disable Delay			80	ns	
Output Enable Delay			80	ns	
Setup Time			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/

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



WX701

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.