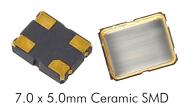


A product Line of Diodes Incorporated

High Temperature Crystal Oscillator 7.0 x 5.0mm

1.8V/2.5V/3.3V CMOS XO





Product Features

- Support high temperature up to 125°C
- Low phase jitter < 1ps RMS max.
- Wide frequency range $1.75 \sim 161 \text{MHz}$
- AEC-Q200 (Grade 1) compliant
- Pb-free & RoHS compliant

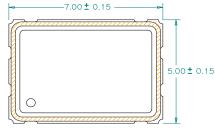
Product Description

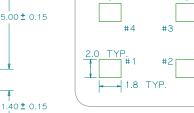
The HX701 XO series is a high performance CMOS crystal oscillator family that supports high temperature with very low jitter performance. It supports various options including wider frequency range, 1.8V/2.5V/3.3V voltage, and various stabilities over wide temperature range. It is designed to meet the clock source specifications for communication systems, Industrial applications and other high performance equipment.

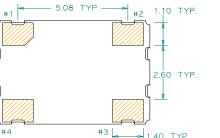
Applications

- Networking and communication systems
- Industrial and outdoor systems
- Storage and server systems
- Automotive devices
- Fanless systems in harsh environment
- Profession video equipments
- Test and measurement equipments

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









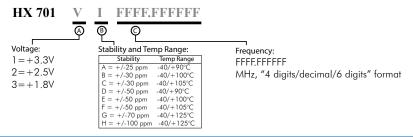
Pin	Function					
1	OE					
2	Ground					
3	Output					
4	V _{DD}					

Recommended Land Pattern:

5 08

*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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Electrical Performance

Parameter		Min.	Тур.	Max.	Units	Notes	
Output Frequency		1.75		161	MHz		
Supply Voltage		3.135	3.3	3.465		See ordering options	
		2.375	2.5	2.625	V		
		1.71	1.8	1.89			
Supply Current, Output Enabled				20	mA	1.75MHz to 60MHz	
				40	mA	>60MHz	
Supply Current, Outp	Supply Current, Output Disabled only			100	uA		
Frequency Stability				±50	ppm	See ordering options	
Operating Temperatu	re Range	-40		+125	°C	See ordering options	
Output Logic 0, V _{OL}				0.1 V _{DD}	V		
Output Logic 1, VOH	Output Logic 1, V _{OH}				V		
Output Load				15	pF		
Duty Cycle		45		55	%	Measured 50% V _{DD}	
Rise and Fall Time, N	Rise and Fall Time, Measured 20/80% of			8		1.75MHz to 60MHz	
waveform				4	ns	> 60MHz	
Jitter, Accumulated, RMS (1-o)				4	ps	20.000 adjacent periods	
Jitter, Phase, RMS	< 40MHz			1		12kHz to 5 MHz frequency band	
	>=40MHz			1	ps	12kHz to 20 MHz frequency band	
Jitter, 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°C), aging (1 year at 25°C average effective ambient temperature), shock and vibration.

2. For specifications other 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
Output Disable Delay			200	ns	
Output Enable Delay			10	ms	
Start up 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/crystals-and-crystal-oscillators/cxo/?part=HX701

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

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All specifications are subject to change without notice.

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