

XO5084-1588-R Series

Synchronous Ethernet HCMOS SMT or Through Hole OCXO



- Ideal for IEEE-1588 Synchronized Ethernet Applications
- Specifically designed for 10 MHz, 12.8 MHz and 20 MHz Frequencies

Ordering Information

XO5084-1588-R

S

Product Series

Package Type

S: Surface Mount

(BLANK): Through Hole

	Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Electrical Specifications	Frequency Range	F	10.000		20.000	MHz	
	Initial Accuracy	F _i	-0.5		+0.5	ppm	@ 25°C at time of shipment
	Overall		-4.6		+4.6	ppm	Over 20 years
	vs Temperature	ΔF _T /F	-10		+10	ppb	Over operating temperature range
	vs Supply Voltage	ΔF _{VDD} /F	-2		+2	ppb	5% change in voltage
	Short Term Stability			1 x 10 ⁻¹¹		per sec.	Allan Deviation <i>Tau</i> = 1 sec.
	Holdover/Day		-1		+1	ppb	Constant voltage and load; <±3%°C change in 24 hours after 30 days of continuous operation
	Output Type		HCMOS				
	Output Load			15		pF	
	Symmetry (duty cycle)	T _{DC}	40	50	60	%	@ 50% of waveform
	Rise/Fall Time	T _R /T _F			10	ns	From 10% to 90% V _{OUT}
	Logic "1" Level	V _{OH}	90% V _{DD}			V	HCMOS Load
	Logic "0" Level	V _{OL}			10% V _{DD}	V	HCMOS Load
	Operating Temperature	T _A	-10		+70	°C	Other temperature ranges are available, please contact the factory
	Storage Temperature	T _S	-45		+85	°C	
	Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
	Power Consumption				1.25	Watts	Steady state @ 25°C in still air
					3.5	Watts	@ warm-up
	Warm-up Time (Restabilization)				3	Minutes	Time to be within ±0.1 ppm of the frequency after 1 hour of operation @ 25°C
	Phase Noise (typical)				-130		dBc/Hz
				-145		dBc/Hz	1 kHz
				-150		dBc/Hz	10 kHz
				-150		dBc/Hz	100 kHz
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, (2000 g's, 0.3 ms duration, ½ sinewave)					
	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 20-2000 Hz)					
	Hermeticity	Per MIL-STD-202, Method 112, Test Condition D					
	Solderability	Per EIAJ-STD-002					
	Soldering Conditions	See solder profile					
	RoHS	Full RoHS 6 Compliance					

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

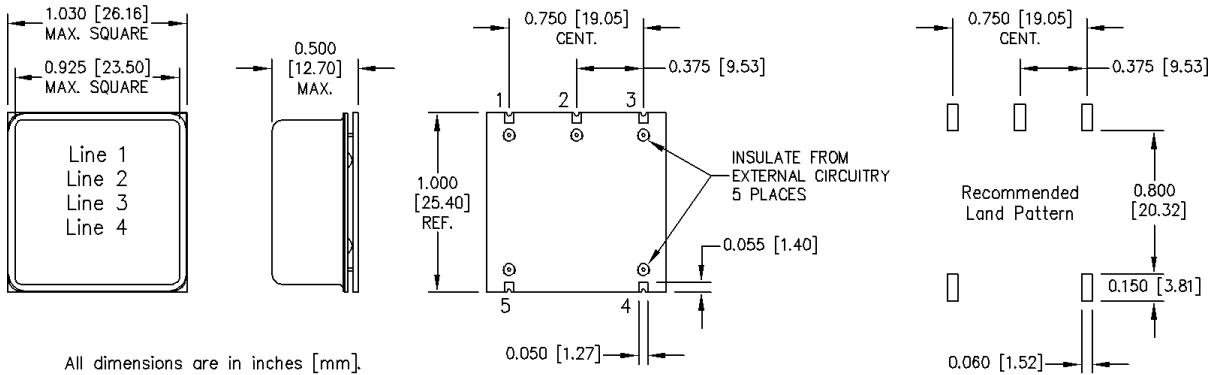
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SMT Package

Please contact the factory for other surface mount configurations.



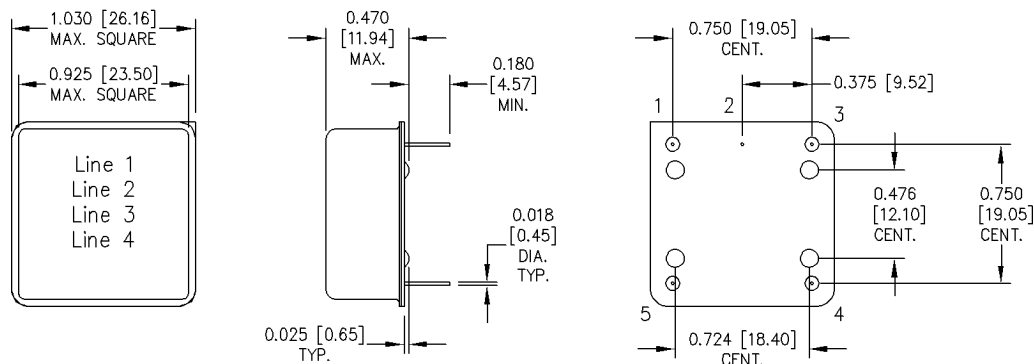
All dimensions are in inches [mm].

Part Marking	
Line 1	MtronPTI
Line 2	XO5084-1588
Line 3	Customer P/N (option)
Line 4	Frequency

Legend	
yy	Year
ww	Work Week

Pin	Function
1	RF Output
4	Case Ground
7	V Tune
13	V Ref
17	Oven Ready
19	Supply Voltage
2,6,15	N/C

Through Hole Package



All dimensions are in inches [mm].

Part Marking	
Line 1	MtronPTI
Line 2	XO5084-1588
Line 3	Customer P/N (option)
Line 4	Frequency

Legend	
yy	Year
ww	Work Week

Pin	Function
1	RF Output
2	Case Ground
3	N/C
4	N/C
5	Supply Voltage

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MtronPTI Lead Free Solder Profile

