

**Preliminary Specification for a Sine wave Output Thru-Hole
Four 100MHz Output with 100MHz Reference Input
OCXO MtronPTI P/N: XO8085-002R**

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F _O		100.0000		MHz	
Frequency Stabilities						
vs. Temperature	ΔF _T /F	-100		+100	ppb	Over the Operating Temperature Range
vs. Supply voltage variation		-30		+30	ppb	5% change in supply voltage
Daily Aging		-5		+5	ppb	After 30-days Power On
1 Year Aging		-0.5		+0.5	ppm	
20-Years Aging		-2.0		+2.0	ppm	
RF External Reference (100MHz)						
RF Input Level		-3	0	+3	dBm	Customer to choose the signal Level between 0+/-3dB
RF Outputs(100MHz)						
Output Type (Four Ports)		Sinewave				On Port 1 , Port2 , Port 3 and Port 4 simultaneously
Output Level			7		dBm	On Port 1 , Port2 , Port 3 and Port 4 simultaneously
Output Load			50		Ω	±10%
Port Isolation		30			dB	
Output VSWR				1.5:1		
Additional Parameters						
Phase Noise (Under Static Conditions)				-100	dBc/Hz	10Hz Offset
				-130	dBc/Hz	100Hz Offset
				-158	dBc/Hz	1kHz Offset
				-167	dBc/Hz	10kHz Offset
				-170	dBc/Hz	100kHz Offset
				-170	dBc/Hz	1MHz Offset
G-sensitivity				0.3	ppb/g	By design
Harmonics				-25	dBc	
Spurious				-75	dBc	
Warm-up Time				5	minutes	To within ±0.1ppm of the frequency after 1-hour of operation @ 25°C
Temperature, Supply Voltage & Power Consumption						
Operating Temperature	OTR	-40		+80	°C	Full Specification Compliance
Storage Temperature	STR	-55		+100	°C	
Operating Voltage	V _{CC}	+4.75	+5.0	+5.25	V _D	
Power Consumption			1.5		Watts	Steady state @ 25°C, In Still Air
				4.0	Watts	@ Warm-up

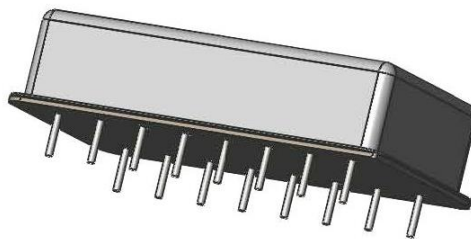
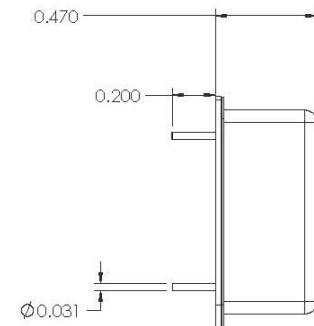
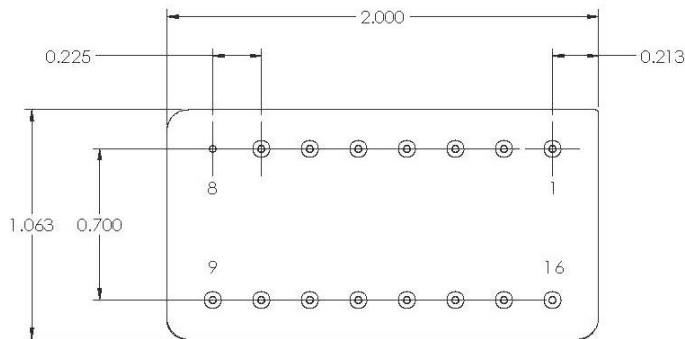
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Environmental Conditions:

Seal	Hermetic
RoHS	Full RoHS Compliance

Mechanical, Marking and Layout Information:

Part Marking
XO8085-002R
Serial Number
Date Code



PIN	Connection
1,5,12,16	NC
2	PORT 1
3,8,10,11,14	GROUND
4	PORT 3
6	FAULT INDICATOR
7	REFERENCE INPUT
9	+5V
10	PLL TEST POINT
13	PORT 4
15	PORT 2

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS
.XX ± .01
.XXX ± .005

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
04-10-18	B	DPD	On HOT side, OT changed from +75C to +80C, storage temp. changed from +85C to 100C.
04-09-18	A	DPD	Preliminary Release