

Specification for a Sinewave Output Thru-Hole OCXO

MtronPTI P/N: XO5085-076R

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F ₀		100.000000		MHz	
Frequency Stabilities						
vs. Temperature	ΔF _T /F	-100		+100	ppb	Over the Operating Temperature Range
Daily Aging		-5		+5	ppb	After 30-days Power On
1 Year Aging		-0.5		+0.5	ppm	
20-Years Aging		-1.5		+1.5	ppm	
RF Output						
Output Type		Sinewave				
Output Level			+12		dBm	
Output Load			50		Ω	±10%
Frequency Adjustment						
Adjustment Method		External Voltage				
Adjustment Voltage	V _{TUNE}	0		+10	V _{DC}	
Adjustment Range		±1.0			ppm	
Adjustment Slope		Positive				
Additional Parameters						
Phase Noise (Under Static Conditions)				-100	dBc/Hz	10Hz Offset
				-130	dBc/Hz	100Hz Offset
				-155	dBc/Hz	1kHz Offset
				-168	dBc/Hz	10kHz Offset
				-172	dBc/Hz	100kHz Offset
g-Sensitivity				1.0	ppb/g	Worst case axis
Harmonics				-30	dBc	
Spurious				-75	dBc	
Warm-up Time				5	minutes	To within ±0.1ppm of the frequency after 1-hour of operation @ 25°C
Additional Parameters (continued)						
Temperature, Supply Voltage & Power Consumption						
Operating Temperature	OTR	-40		+80	°C	Full Specification Compliance
Storage Temperature	STR	-55		+85	°C	
Operating Voltage	V _{CC}	+11.4	+12.0	+12.6	V _{DC}	
Power Consumption			1.5		Watts	Steady state @ 25°C, In Still Air
				4.8	Watts	@ Warm-up

Environmental Conditions:

Seal	Hermetic
RoHS	Full RoHS Compliance

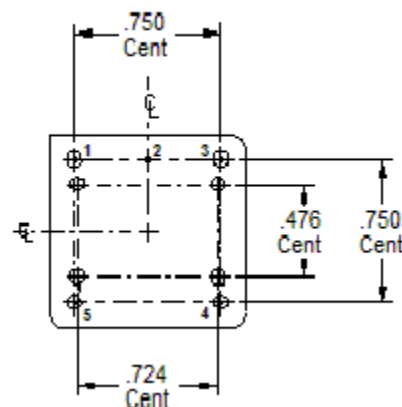
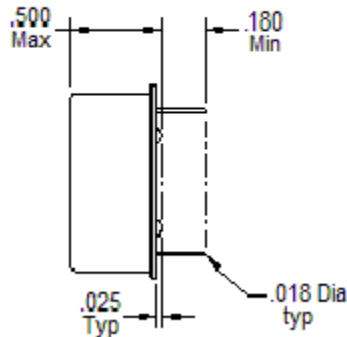
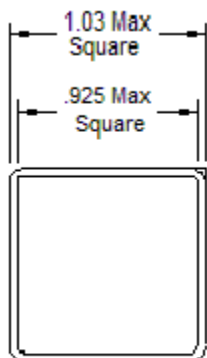
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Mechanical, Marking and Layout Information:

Recommended Part Marking
MtronPTI
XO5085-076R
100.0000MHz
Serial Number
Date Code

Legend	
yy	Year
ww	Work Week

Pin	Function
1	RF Output
2	Case Ground
3	V _{TUNE}
4	NC
5	Supply Voltage



Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
06-16-17	A	DPD	Original Draft.