

## Specification for a Sinewave Output Thru-Hole OCXO

### MtronPTI P/N: XO5085-096R

#### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F <sub>0</sub>		50.000000		MHz	
<b>Frequency Stabilities</b>						
vs. Temperature	$\Delta F_T/F$	-100		+100	ppb	Peak-Peak over the operating temperature range
10-Years Aging		-1.5		+1.5	ppm	After 30-days Power On
Short Term Stability			$1 \times 10^{-10}$			Allan Deviation, Tau = 0.1sec to 1sec
<b>RF Output</b>						
Output Type		Sinewave				
Output Level			+5		dBm	
Output Load			50		$\Omega$	±10%
<b>Frequency Adjustment</b>						
Adjustment Method		External Voltage				
Adjustment Voltage	V <sub>TUNE</sub>	0		+5	V <sub>DC</sub>	
Adjustment Range		Sufficient for 10-years aging adjustment				
V <sub>REF</sub>	V <sub>REF</sub>		+4		V <sub>DC</sub>	≤ 0.5mA
Modulation Bandwidth		1			kHz	3dB
<b>Additional Parameters</b>						
Phase Noise			-100		dBc/Hz	10Hz Offset
			-132		dBc/Hz	100Hz Offset
			-160		dBc/Hz	1kHz Offset
			-170		dBc/Hz	10kHz Offset
			-170		dBc/Hz	100kHz Offset
Harmonics				-25	dBc	
Spurious				-75	dBc	
Warm-up Time				4	minutes	@ 25°C, relative to 2-hrs after turn-on following 24-hrs off. To within ±0.1ppm of final frequency.
<b>Temperature, Supply Voltage &amp; Power Consumption</b>						
Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Storage Temperature	T <sub>S</sub>	-55		+85	°C	
Operating Voltage	V <sub>S</sub>	+4.75	+5.0	+5.25	V <sub>DC</sub>	
Power Consumption				2.0	Watts	Steady state @ 25°C, In Still Air
				4.0	Watts	@ Warm-up

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### Environmental Conditions:

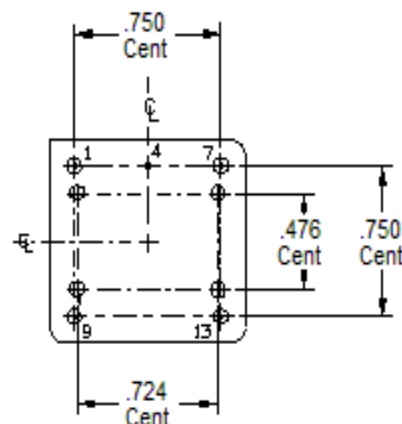
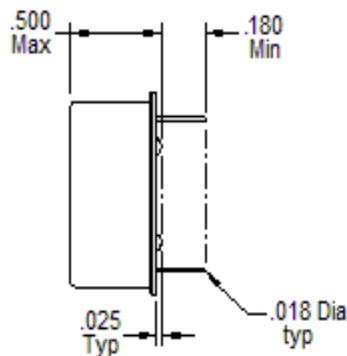
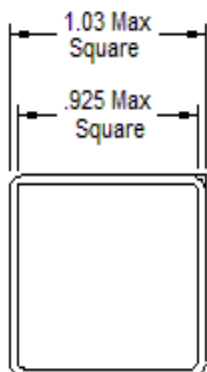
MSL	Level 1
Seal	Hermetic
RoHS	Full RoHS Compliance

### Mechanical, Marking and Layout Information:

Part Marking
MtronPTI
XO5085-096R
50.0000MHz
Serial Number
Date Code

Legend	
yy	Year
ww	Work Week

Pin	Function
1	RF Output
4	Case Ground
7	V <sub>TUNE</sub>
13	NC
19	Supply Voltage



### Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
09-13-18	A	DPD	Original release-SA-11R