

Specification for a Sinewave Output SMT OCXO

MtronPTI P/N: XO5085-059sR

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F _O		100.000000		MHz	
Frequency Stabilities						
vs. Temperature	ΔF _T /F	-100		+100	ppb	Peak-Peak over the operating temperature range
20-Years Aging		-2.0		+2.0	ppm	After 30-days Power On
Short Term Stability			1 x 10 ⁻¹⁰			Allan Deviation, Tau = 0.1sec to 1sec
RF Output						
Output Type		Sinewave				
Output Level		+11	+13	+15	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				-131	dBc/Hz	100Hz Offset
				-158	dBc/Hz	1kHz Offset
				-171	dBc/Hz	10kHz Offset
				-171	dBc/Hz	100kHz Offset
				-171	dBc/Hz	1MHz Offset
				-171	dBc/Hz	10MHz Offset
Harmonics				-30	dBc	
Spurious				-75	dBc	
Warm-up Time				5	minutes	To within ±0.1ppm of final frequency after 1-hour of operation @ 25°C.
Temperature, Supply Voltage & Power Consumption						
Operating Temperature	T _A	-20		+75	°C	
Storage Temperature	T _S	-55		+85	°C	
Operating Voltage	V _S	+11.4	12.0	12.6	V _{DC}	
Power Consumption			1.2		Watts	Steady state @ 25°C, In Still Air
				4.0	Watts	@ Warm-up

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Environmental Conditions:

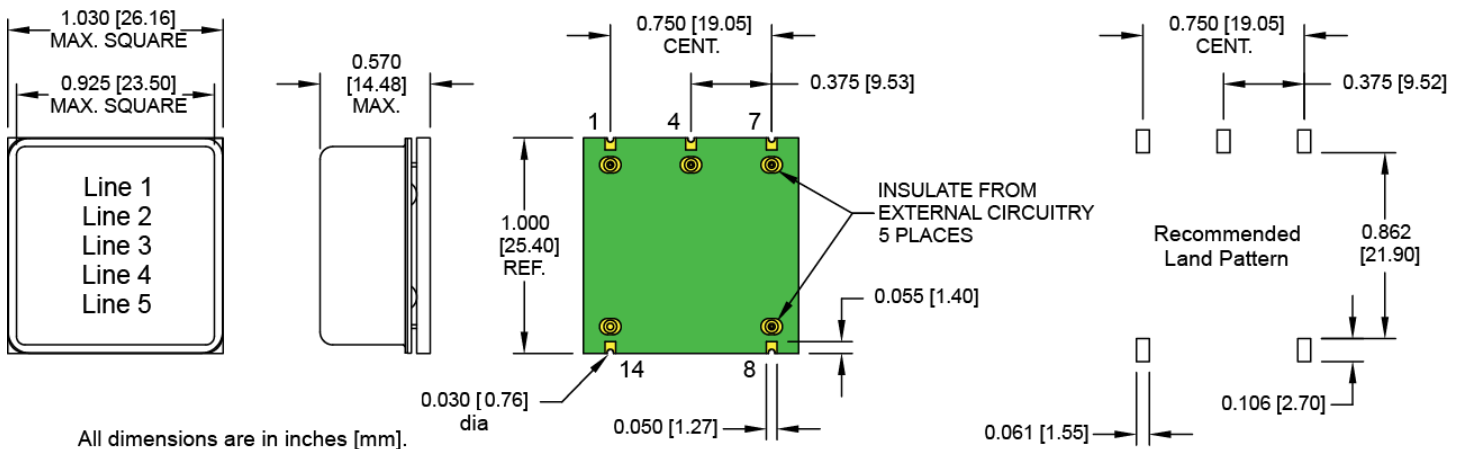
Seal	Hermetic
RoHS	Full RoHS Compliance
Max. Soldering Conditions	See soldering conditions, Figure 1

Mechanical, Marking and Layout Information:

Part Marking	
Line 1	MtronPTI
Line 2	XO5085-059sR
Line 3	100.0000MHz
Line 4	Serial Number
Line 5	Date Code

Legend	
yy	Year
ww	Work Week

Pin	Function
1	RF Output
4	Case Ground
7	V _{TUNE}
8	N/C
14	Supply Voltage



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

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Soldering Conditions:

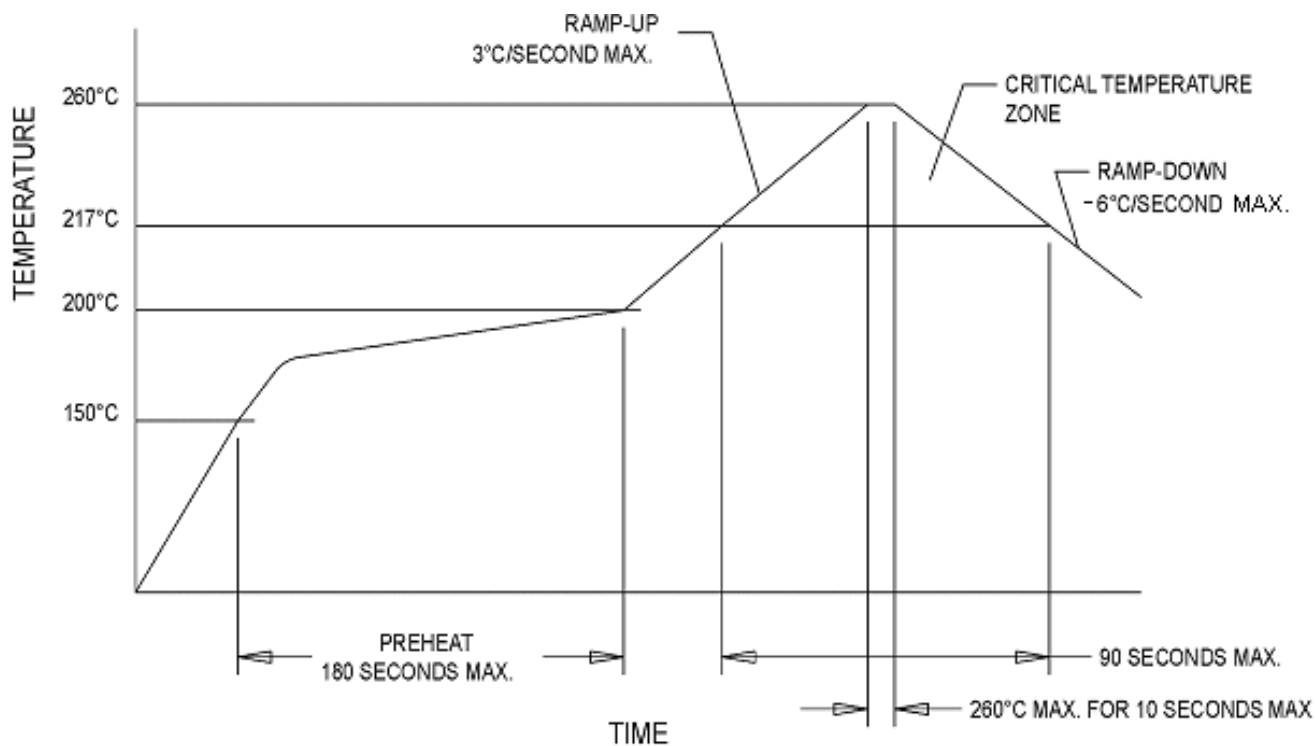


Figure 1

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
07-21-16	A	MM	Original Draft.
08-17-16	B	MM	Updated phase noise limits.
09-13-16	C	MM	Updated output level spec and added soldering profile.
09-15-16	D	MM	Added customer part number.