

Specification for a Sinewave Output SMT OCXO
MtronPTI P/N: XO5085-113sR
(L3Harris P/N: TBD)

Electrical Specifications:

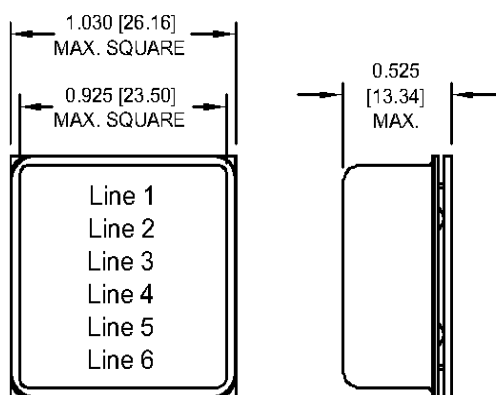
Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F _O		100.000000		MHz	
Frequency Stabilities						
vs. Temperature	ΔF _T /F	-100		+100	ppb	Over the Operating Temperature Range
vs. Supply voltage variation		-30		+30	ppb	+/-250mV change in supply voltage
Daily Aging		-5		+5	ppb	After 30-days Power On
1 Year Aging		-100		+100	ppb	
20-Years Aging		-2.0		+2.0	ppm	
Retrace		-20		-20	ppb	After 30-minutes power on following 24-hours off
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		±1500			ppb	Over all conditions
Adjustment Slope			Positive			
Additional Parameters						
Phase Noise (Under Static Conditions)				-97	dBc/Hz	10Hz Offset
				-128	dBc/Hz	100Hz Offset
				-158	dBc/Hz	1kHz Offset
				-170	dBc/Hz	10kHz Offset
				-170	dBc/Hz	100kHz Offset
				-170	dBc/Hz	1MHz Offset
Harmonics				-25	dBc	
Spurious				-80	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		+85	°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
				5.0	Watts	@ Warm-up

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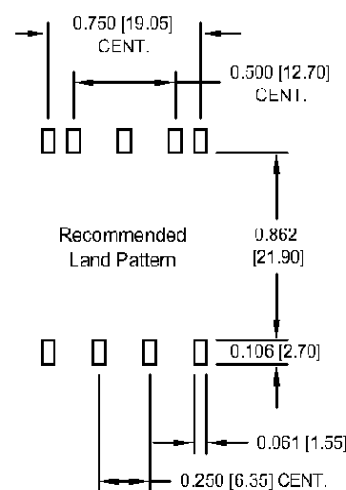
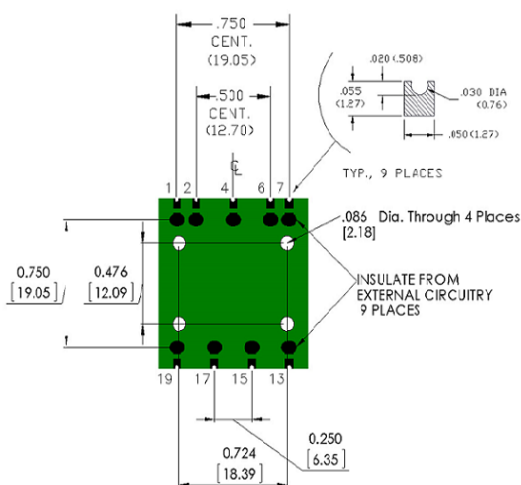
Environmental Conditions:

Seal	Hermetic
RoHS	Full RoHS Compliance

Mechanical, Marking and Layout Information:



All dimensions are in inches [mm].



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

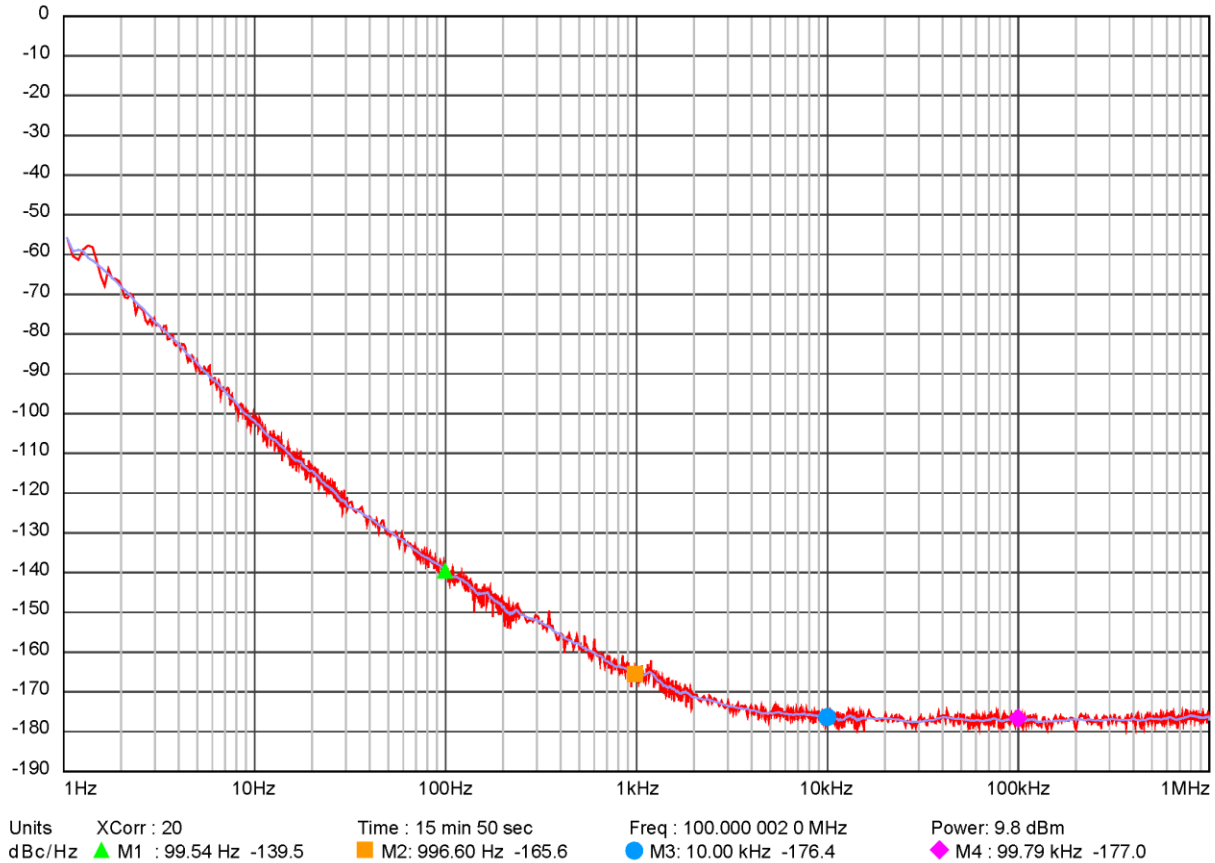
Part Marking	
Line 1	MtronPTI
Line 2	XO5085-113sR
Line 3	100.0000MHz
Line 4	Serial Number
Line 5	Date Code

Legend	
yy	Year
ww	Work Week

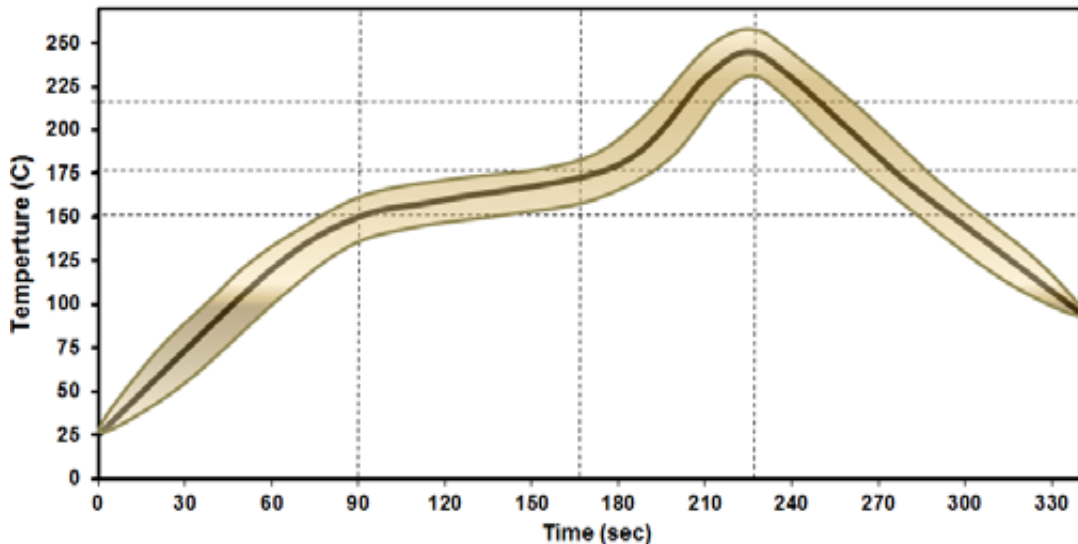
Pin	Function
1	RF Output
2	N/C
4	Case Gnd
6	N/C
7	V _{Tune}
13	N/C
15	N/C
17	N/C
19	Supply Voltage

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MTRONPTI OCXO 100MHz 5085 Series Representative Phase Noise



REFLOW PROFILE:





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Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
10/1/19	A	DPD	Original release