

Specification for a Sinewave Output SMT OCXO

MtronPTI P/N: XO5085-098sR

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F ₀		50.000000		MHz	
Frequency Stabilities						
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			1×10^{-10}			Allan Deviation, Tau = 0.1sec to 1sec
RF Output						
Output Type			Sinewave			
Output Level			+5		dBm	
Output Load			50		Ω	$\pm 10\%$
Frequency Adjustment						
Adjustment Method			External Voltage			
Adjustment Voltage	V _{TUNE}	0		+5	V _{DC}	
Adjustment Range			Sufficient for 10-years aging adjustment			
Modulation Bandwidth		1			kHz	3dB
Additional Parameters						
Phase Noise				-95	dBc/Hz	10Hz Offset
				-122	dBc/Hz	100Hz Offset
				-152	dBc/Hz	1kHz Offset
				-165	dBc/Hz	10kHz Offset
				-165	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 ± 0.1 ppm of final frequency.
Temperature, Supply Voltage & Power Consumption						
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+85	°C	
Operating Voltage	V _S	+4.75	+5.0	+5.25	V _{DC}	
Power Consumption				2.0	Watts	Steady state @ 25°C, In Still Air
				4.0	Watts	@ Warm-up

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Environmental Conditions:

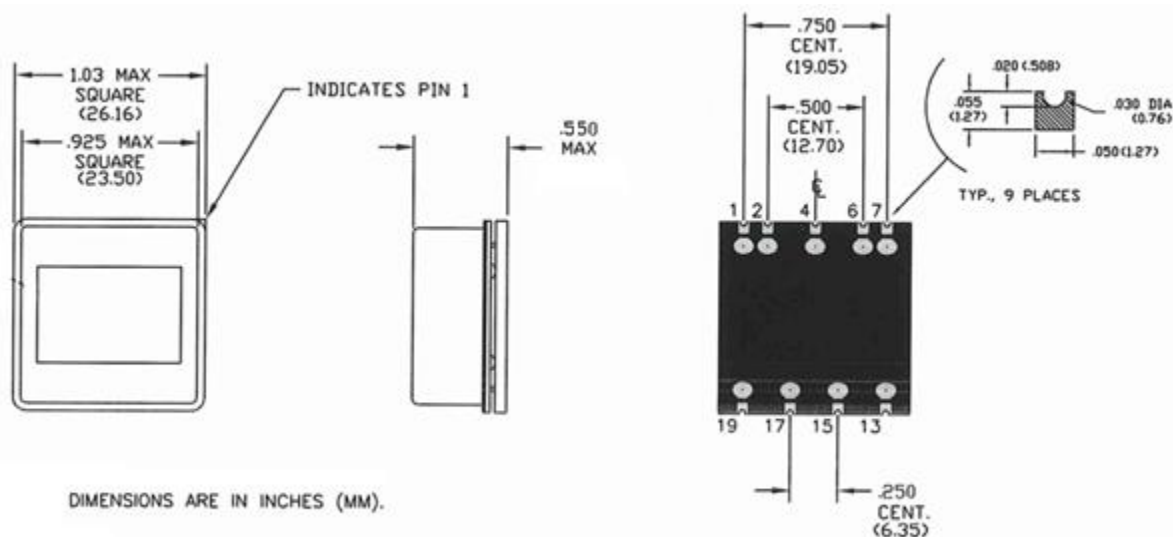
MSL	Level 1
Seal	Hermetic
RoHS	Full RoHS Compliance

Mechanical, Marking and Layout Information:

Part Marking
MtronPTI
XO5085-098sR
50.0000MHz
Serial Number
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



Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
11-6-18	A	DPD	Preliminary release SA 96sR