

Specification for a 1.00GHz Sine wave Output OCXO MtronPTI P/N: XO9095-014

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions	
Nominal Frequency	FO		1.00		GHz		
	11		Frequency Sta	bilities			
vs. Temperature	∆FŢ/F	-100		+100	ppb	Over the Operating Temperature Range	
Daily Aging			3.0		ppb		
1 Year Aging			0.3		ppm	After 30-days Power On	
10-Years Aging				+2.0	ppm		
Retrace			±100		ppb	24 hours OFF and after 30 minutes ON	
Allan Deviation			1E-10			0.1 sec to 10 sec	
	· ·		RF Output		T		
Output Type			Sinewave				
Output Level		+10	+12	+14	dBm	Over operating temperature	
Output Load			50		Ω	±10%	
			Additional Para		•	1	
Control Voltage(Vc)		0		4.5	V		
Tuning			±1.5		ppm		
Absolute Pull Range (APR)		±1.0			ppm	If used in PLL, shows what reference instability it can tolerate to lock over life	
Tuning slope			Positive				
Input Impedance		10			kohm	At Vc pin	
Modulation Bandwidth		150			Hz		
Vref			4.5		V	Source current : 1mA max.	
				-70	dBc/Hz	10Hz Offset	
Phase Noise (Under Static				-105	dBc/Hz	100Hz Offset	
Conditions)				-135	dBc/Hz	1kHz Offset	
,				-147	dBc/Hz	10kHz Offset	
				-152	dBc/Hz	100kHz Offset	
Harmonics				-15	dB		
Sub-Harmonics			-50		dB		
Spurious	<u> </u>			-80	dB		
g-sensitivity				±2.0	ppb/g	Worst case axis	
Warm-up time			3	5	minutes	Test Condition (@ 25°C): Oscillator turned ON after 24hrs OFF. Frequency change 5 minutes after turn ON will be within ±0.1ppm of Long-term stable nominal frequency.	
Start-up time				400msec	sec	Output level to be 90% of max output level at -40C	

Temperature, Supply Voltage & Power Consumption						
Operating Temperature	OTR	-40		+85	°C	Full Specification Compliance
Operating Voltage	VCC	+4.75	+5.0	+5.25	VDC	

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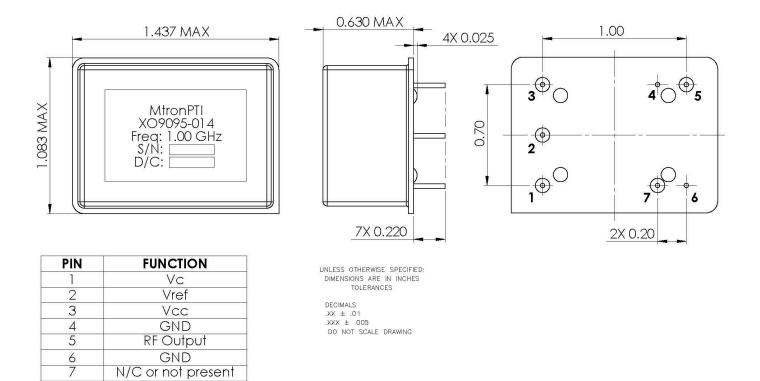
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Power Consumption			1.0	1.75	Watts	Steady state @ 25°C, In Still Air
			2.5		Watts	@ Start-up @-30C
Absolute Maximum Ratings (operable only)						
Storage Temperature	STR	-50		+95	°C	
Output Load		45	50	55	Ω	

Environmental Conditions:

Seal	Hermetic	
Mechanical Shock	Per MIL-STD-202, 30G, 11ms	
Vibration	Per MIL-STD-202, 5G 50Hz to 2KHz	

Mechanical, Marking and Layout Information:



Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
04-18-23	В	AR	Updated Phase Noise
02-08-23	A	DPD	Preliminary Release

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