



Specification for a Sine Output OCXO MtronPTI P/N: XO5089-013R

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions	
Nominal Frequency	Fo		10.000000		MHz		
Initial Frequency		-100		+100	ppb	At time of shipment	
		Freque	ency Stabilitie	es		•	
vs. Temperature Range		-10		+10	ppb	-40°C to +85°C	
vs. Supply Voltage		-2.5		+2.5	ppb	±5% change in voltage	
vs. Load		-2.5		+2.5	ppb	±5% change in load	
Aging/Day		-0.5		+0.5	ppb	After 30-days Power On	
90-Day Aging		-20		+20	ppb		
Aging/Year		-100		+100	ppb		
Short Term Stability				1	x10 ⁻¹¹	Per Second.	
(Allan deviation)					X10 ···	Per Second.	
	1	F	RF Output			1	
Output Type	ļ		Sinewave				
Output Load			50		Ω	±5%	
Level			+10		dBm	In a 50 Ω load	
	1		ncy Adjustme			T	
Method		Exter	nal Voltage Tu	uned			
Tuning Slope			Positive				
Tuning Range		+/- 1			ppm		
Tuning Voltage	VTUNE	0		+5	VDC		
Modulation Bandwidth		1			kHz		
			r Parameters				
	1 1	Pł	ase Noise		1	1	
				-112		@ 1Hz Offset	
				-142		@ 10Hz Offset	
				-155	dDa/Uz	@ 100Hz Offset	
				-162	dBc/Hz	@ 1kHz Offset	
				-170		@ 10kHz Offset	
				-172		@ 100kHz Offset	
Warm-up Time	ΔF/F			5	Minutes	To be within ±100ppb, @ 25°C, referenced to the frequency after 24- hour power on	
Harmonics				-30	dBc		
Spurious				-80	dBc		
	Sup	ply Voltage	& Power Co		- ·		
Supply Voltage	Vs	4.75	5.0	5.25	V _{DC}		
Power Consumption				2.5	Watts	Steady state @ 25°C, in still air	
				4.5	Watts	In still air @ turn on	





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Environmental Conditions:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	OTR	-40		+85	°C	
Storage Temperature	STR	-55		+85	°C	
Vibration (survival)	Per MIL-ST	Per MIL-STD 202G, Method 204, Condition A				
Shock (survival)	Per MIL-ST	Per MIL-STD 202G, Method 213, Condition C				
Solderability	Per EIAJ-S	Per EIAJ-STD-002				
RoHS	Full RoHS (Full RoHS Compliance				

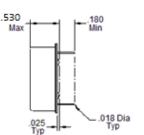
Mechanical, marking and pin out Information:

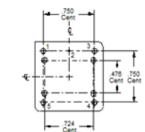
Part Marking			
MtronPTI			
XO5089-013R			
10.0000MHz			
Serial Number			
Date Code			

Pad	Function
1	RF Output
2	Case Ground
3	V _{TUNE}
4	NC
5	Supply Voltage

Legend			
уу	Year		
ww	Work Week		







Pin Numbers Shown For Reference Only All Dimensionsare in Inches

> UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS JXX ± .01 JXX ± .01

Data Sheet Revision Table:

06-08-17	Α	DPD	Original Release.
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