



Specification for a Sine Output OCXO MtronPTI P/N: XO5089-007R

Electrical Specifications:

Unless of	herwise spe	cified; T= +	25°C, Vs = +5'	$V_{DC}, V_{C} = +2$.5V _{DC} , Load		
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				
vs. Temperature Range		-10		+10	ppb	-20°C to +70°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 20 days Days	
90-Day Aging		-20		+20	ppb	After 30-days Power	
Aging/Year		-100		+100	ppb	On	
Short Term Stability				1	x10 ⁻¹¹	Der Second	
(Allan deviation)				I	XIU ···	Per Second.	
		F	RF Output				
Output Type			Sinewave				
Output Load			50		Ω	±5%	
Level			+10		dBm	In a 50 Ω load	
		Freque	ncy Adjustme	ent			
Method		Exter	rnal Voltage Tu	uned			
Tuning Slope			Positive				
Tuning Range		+/- 1			ppm		
Tuning Voltage	VTUNE	0		+5	VDC		
Modulation Bandwidth		1			kHz		
			er Parameters				
		PI	nase Noise				
				-105		@ 1Hz Offset	
				-137		@ 10Hz Offset	
				-155		@ 100Hz Offset	
				-162	dBc/Hz	@ 1kHz Offset	
				-169		@ 10kHz Offset	
				-169	-	@ 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		
Vref			4.1		V	Max source current 1mA	
	Sup	ply Voltage	& Power Co	nsumption	•		
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:

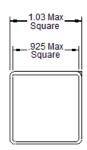
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	OTR	-20		+70	°C	
Storage Temperature	STR	-55		+85	°C	
Vibration (survival)	Per MIL-ST	Per MIL-STD 202G, Method 204, Condition A				
Shock (survival)	Per MIL-ST	Per MIL-STD 202G, Method 213, Condition C				
Solderability	Per EIAJ-S	Per EIAJ-STD-002				
RoHS	Full RoHS Compliance					

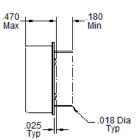
Mechanical, marking and pin out Information:

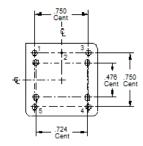
Part Marking			
Line 1	MtronPTI		
Line 2	XO5089-007R		
Line 3	10.0000MHz		
Line 4	Serial Number		
Line 5	Date Code		

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

Legend			
уу	Year		
ww	Work Week		







Pin Numbers Shown For Reference Only All Dimensionsare in Inches

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision	
10-13-16	А	DPD	Original Release.	