

2525 Shader Road Orlando Florida 32804 USA Phone: 407-298-2000 Fax: 407-293-2979 Website: www.mtronpti.com AMEX: LGL



Specification for a Sine Output OCXO MtronPTI P/N: XO5089-016R

Electrical Specifications:

Unless otherwise specified; T= +25°C, V_S = +5 V_{DC} , V_C = +2.5 V_{DC} , Load= 50 Ω

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	Fo		10.000000		MHz	
Initial Frequency		-50		+50	ppb	At time of shipment
·	•	Freque	ncy 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 00 In a Drawn
90-Day Aging		-20		+20	ppb	After 30-days Power
Aging/Year		-40		+40	ppb	On
Aging (10 year)		-350		+350	ppb	
Short Term Stability (Allan deviation)				1	x10 ⁻¹¹	Per Second.
		R	F Output			
Output Type			Sinewave			
Output Load			50		Ω	±5%
Level			+10		dBm	In a 50Ω load
		Freque	ncy Adjustm	ent		
Method						
Tuning Slope						
Tuning Voltage	V _{TUNE}	0		+5	V _{DC}	
			r Parameters			
Low Phase Noise						
				-112		@ 1Hz Offset
				-142		@ 10Hz Offset
				-155] ".	@ 100Hz Offset
				-162	dBc/Hz	@ 1kHz Offset
				-170		@ 10kHz Offset
				-170		@ 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	
Supply Voltage & Power Consumption						
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:

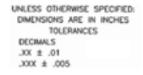
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	OTR	-40		+85	°C	
Storage Temperature	STR	-55		+85	°C	
Vibration (survival)	Per MIL-STD 202G, Method 204, Condition A					
Shock (survival)	Per MIL-STD 202G, Method 213, Condition C					
Solderability	Per EIAJ-STD-002					
RoHS	Full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

Mechanical, marking and pin out Information:

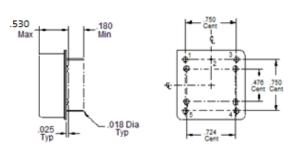
Part Marking		
Line 1	MtronPTI	
Line 2	XO5089-016R	
Line 3	10.0000MHz	
Line 4	Serial Number	
Line 5	Date Code	

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

Data Sheet Revision Table:

ı	Date	Rev.	Orig.	Details of Revision
	04-17-19	Α	BRR	Preliminary Release.