

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 Thru-Hole OCXO MtronPTI P/N: XO5123-064R

Electrical Specifications:

Unless otherwise specified; $T=+25^{\circ}C$, $V_S=+12V_{DC}$, $V_C=+2.5V_{DC}$, Load= 50Ω

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions	
Nominal Frequency	Fo		10.000000		MHz		
Initial Frequency		-0.1		+0.1	ppm	At time of shipment	
Frequency Stabilities							
vs. Temperature Range		-10.0		+10.0	ppb	-40°C to +85°C	
vs. Supply Voltage		-2.0		+2.0	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		
Aging/Year		-0.1		+0.1	ppm Alter 30-days Fower Off		
Short Term Stability (Allan deviation)			5		x10 ⁻¹²	Per Second.	
			RF Output				
Output Type			Sinewave		Г		
Output Load			50		Ω	±5%	
Level	Vон	+8	+10	+12	dBm	In a 50Ω load	
Startup Time				500	ms		
	T	Frequ	ency Adjustm				
Method							
Tuning Slope				Positive		T	
Tuning Voltage	V _{TUNE}	0	2.5	+5	V _{DC}	0	
Tuning Range Modulation Band Width		1	+/- 2		ppm kHz	Over tuning voltage range	
Wodulation Band Width			er Parameter		KHZ		
		Otti		>		@ 411- 0#	
			-105			@ 1Hz Offset	
				-137		@ 10Hz Offset	
SSB Phase Noise				-155	dBc/Hz	@ 100Hz Offset	
(under static conditions)				-162		@ 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				-70	dBc		
			e & Power Co				
Supply Voltage	Vs	11.4	12.0	12.6	V_{DC}		
Power Consumption			2.1		Watts	Steady state @ 25°C, in still air	
				5	Watts	@ turn on Over operating temperature range	
				5	Watts	Over operating temperature range	



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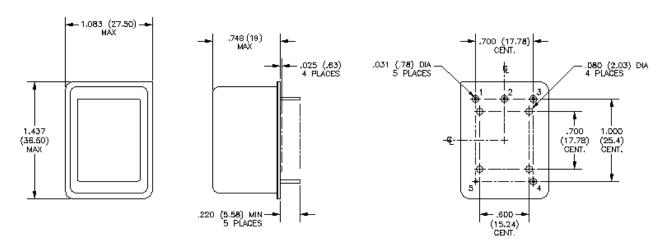


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Environmental Conditions:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	OTR -40 +85 °C				°C	
Storage Temperature	STR	STR -40 +90		°C		
Vibration (survival)	Per MIL-STD 202G, Method 204, Condition A					
Shock (survival)	Per MIL-STD 202G, Method 213, Condition C					
Humidity	0% to 98%					
Solderability	Per EIAJ-STD-002					
RoHS	Full RoHS Compliance					

Mechanical, Marking and Pinout Information:



DIMENSIONS ARE SHOWN IN INCHES (MM) PIN NUMBERS SHOWN FOR REFERENCE ONLY

Pin	Function			
1	V _{TUNE}			
2	NC			
3	Supply Voltage			
4	RFout			
5	Ground			

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
06-26-18	Α	DPD	Original Release.