

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: XO5123-040R

Electrical Specifications:

Unless otherwise specified; T= +25°C, V_S = +5 V_{DC} , V_C = +0 V_{DC} , Load= 50 Ω

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		+10	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
Aging/Year		-0.1		+0.1	ppm	On
Short Term Stability (Allan deviation)			5		x10 ⁻¹²	Per Second.
(man de namen)	1	F	RF Output			1
Output Type			Sinewave			
Output Load			50		Ω	±5%
Level	Vон	+10			dBm	In a 50Ω load
			ncy Adjustme			
Method		Exte	rnal Voltage Ti	uned		
Tuning Slope			Negative			
Tuning Voltage	V _{TUNE}	-5	0	+5	V _{DC}	
Tuning Sensitivity			-1.6		Hz/V	Over tuning voltage range
Modulation Bandwidth		1			kHz	
	1	Othe	r Parameters			
			-105			@ 1Hz Offset
				-137	dBc/Hz	@ 10Hz Offset
SSB Phase Noise				-155		@ 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				-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
Osc Disable Logic	Pin 4: CMOS Logic levels '0' : Oscillator Disabled Pin 4: CMOS Logic levels '1' : Oscillator Enabled					
Oven Monitor				0.5	V _{DC}	Pin 7: Oven Not Ready
		3.3			V _{DC}	Pin 7: Oven Ready



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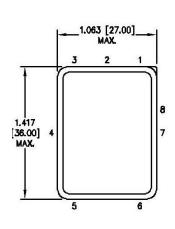
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Environmental Conditions:

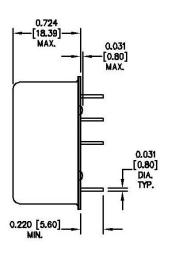
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	OTR	-40		+85	°C	
Storage Temperature	STR	STR -55		+85	°C	
Vibration (survival)	Per MIL-STD 202G, Method 204, Condition A					
Shock (survival)	Per MIL-STD 202G, Method 213, Condition C					
Solderability	Per EIAJ-STD-002					
RoHS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

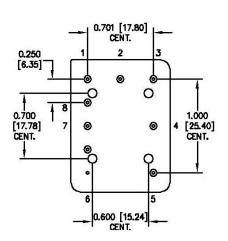
Mechanical, Marking and Pinout Information:

Pin	Function		
1	V_{TUNE}		
2	N/C		
3	Supply Voltage		
4	Enable / Disable		
5	RFout		
6	Ground		
7	Oven Monitor		
8	N/C		



All dimensions are in inches [mm].





Data Sheet Revision Table:

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	Date	Rev.	Orig.	Details of Revision	
	12-07-16	В	DD	OT changed to -40C to +85C from -20C to +70C	
	10-19-16	Α	DD	Preliminary Specification	