

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: XO5123-034R

Electrical Specifications:

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

			23 C, VS = +1			
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo	Fo 10.000000 MH		MHz		
Initial Frequency		-0.1		+0.1	ppm	At time of shipment
			<u>iency Stabilit</u>			
vs. Temperature Range		-10		+10	ppb	-40°C to +90°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		-1		+1	ppb	After 20 days Dower On
Aging/Year (extrapolation)		-50		+50	ppb	After 30-days Power On
Short Term Stability				5	x10 ⁻¹¹	Per Second.
(Allan deviation)				5	X 10 ··	Per Second.
·			RF Output			
Output Type			Sinewave			
Output Load			50		Ω	±5%
Level	Vон	+5		+10	dBm	In a 50Ω load
		Frequ	ency Adjustn	nent		
Frequency Adjustment						
Method			Exte	ernal Voltage	Tuned	
Tuning Slope				Positive		
Tuning Voltage	V _{TUNE}	0	2.5	+5	V_{DC}	
Tuning Range		±0.5		±1.5	ppm	
Input Impedance			100		kΩ	
Linearity				10	%	
		Oth	er Parameter	s		
			-120			@ 10Hz Offset
000 0			-140		1	@ 100Hz Offset
SSB Phase Noise			-145		dBc/Hz	@ 1kHz Offset
(under static conditions)			-152			@ 10kHz Offset
			-155			@ 100kHz Offset
					5 Minutes	To be within ±100ppb, @
	ΔF/F			_		25°C, referenced to the
Warm-up Time				5		frequency after 24-hour
						power on
Harmonics				-30	dBc	1
Spurious				-80	dBc	
1	Sı	ipply Voltag	e & Power Co		,	1
Supply Voltage	Vs	11.4	12.0	12.6	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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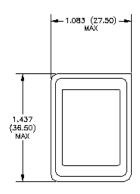


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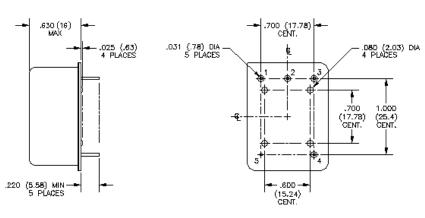
Environmental Conditions:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	OTR	-40		+90	°C	
Storage Temperature	STR -45 +85 °C		°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	FUNCTIONS
1.	Vtune
2.	N/C
3.	SUPPLY
4.	RF OUT
5.	GROUND



DIMENSIONS ARE SHOWN IN INCHES (MM)

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

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
02-01-12	0	BRM	Original Release.