

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



Specification for a Sinewave Output Thru-Hole OCXO MtronPTI P/N: XO5085-029R

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		100.000000		MHz	
		F	requency Stab	ilities		
vs. Temperature	ΔF _T /F	-75		+75	ppb	Over the Operating Temperature Range
Daily Aging		-5		+5	ppb	
1 Year Aging		-0.5		+0.5	ppm	After 30-days Power On
20-Years Aging		-1.25		+1.25	ppm	
			RF Output			•
Output Type			Sinewave			
Output Level		+7.5	+10	+11.0	dBm	
Output Load			50		Ω	±10%
•		F	requency Adjus	stment		•
Adjustment Method			External \	√oltage		
Adjustment Voltage	V _{TUNE}	0		+10	V _{DC}	
Adjustment Range		±1.0			ppm	
Adjustment Slope			Posit	ive		
·		Α	dditional Parar	neters		•
				-100	dBc/Hz	10Hz Offset
Dhaca Naisa				-132	dBc/Hz	100Hz Offset
Phase Noise				-162	dBc/Hz	1kHz Offset
(Under Static Conditions)				-170	dBc/Hz	10kHz Offset
Conditions)				-170	dBc/Hz	100kHz Offset
				-170	dBc/Hz	1MHz Offset
Vref			10		V	Max. Source current:0.5mA
Harmonics				-30	dBc	
Spurious				-75	dBc	
Warm-up Time				5	minutes	To within ±0.1ppm of the frequency after 1-hour of operation @ 25°C
			nal Parameters			
			pply Voltage &			T= 0.0 .0
Operating Temperature	OTR	-20		+75	°C	Full Specification Compliance
Storage Temperature	STR	-55		+85	°C	
Operating Voltage	Vcc	+11.4	+12.0	+12.6	V _{DC}	
Power Consumption			1.0		Watts	Steady state @ 25°C, In Still Air
·				4.0	Watts	@ Warm-up

Environmental Conditions:

Seal	Hermetic
RoHS	Full RoHS Compliance



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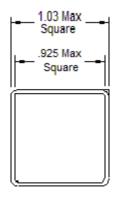
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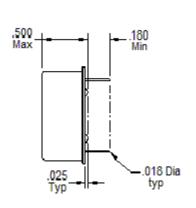
Mechanical, Marking and Layout Information:

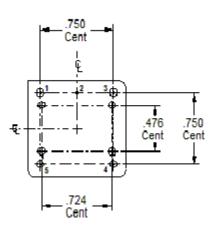
Part Marking	
Line 1	MtronPTI
Line 2	XO5085-029R
Line 3	100.0000MHz
Line 4	Serial Number
Line 5	Date Code

	Legend	
уу	Year	
ww	Work Week	

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







Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
12/12/14	Α	DPD	Original Draft