



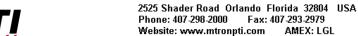
Specification for a Sinewave Output Thru-Hole OCXO MtronPTI P/N: XO5081-068

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	Fo		100.0000		MHz	
		F	requency Stabili	ity		
Over Temperature Range		-0.2		+0.2	ppm	Over 0°C to +70°C Ref. 25 °C
Aging				±3.0	ppm	Per year
[After 72-hours of operation]				±10.0	ppm	10-years
	ı		RF Output			1
Output Type			Sinewave	1	T	
Output Level		+7.0			dBm	Into a nominal 50Ω load
Output Load			50	<u> </u>	Ω	±10%
	1	Fre	equency Adjustn			1
Adjustment Method	***		External Voltage		3.7	
Tuning Voltage	V _{TUNE}	0	.20	+10.0	V_{DC}	0.66.
Tuning Range		1000	±3.0		ppm	Sufficient for 10-years aging offset
Tuning Bandwidth		1000	Positive		Hz	
Tuning Slope			Positive Phase Noise			
			r nase Noise	50		@ 1H- Off4
				-50	ID //I	@ 1Hz Offset
				-88		@ 10Hz Offset
CCD Diseas Nation				-118		@ 100Hz Offset
SSB Phase Noise				-145	dBc/Hz	@ 1kHz Offset
				-165		@ 10kHz Offset
				-165		@ 100kHz Offset
		Ad	ditional Parame	ters		
Supply Voltage	V_{S}	11.4	12.0	12.6	V_{DC}	
Maximum Current Consumption				300	mA	
Oven Ready (Open Collector)	Low	Oven NOT Ready				3mA sink Max
	High	Oven Ready				Shai shik wax
Harmonics				-20	dBc	
Warm-up Time @ 0°C				3	Minutes	To within 0.1ppm of the frequency @ 1 hour after 24-hours off

Physical & Environmental:

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Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	OTR	0		+70	°C	
Storage Temperature	STR	-55		+85	°C	
Package	Reference Dr	Reference Drawing				





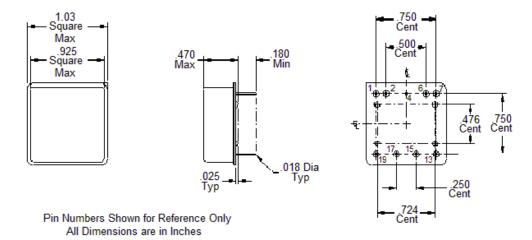
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Mechanical and Pinout:

Part Marking		
Line 1	MtronPTI	
Line 2	XO5081-068	
Line 3	10.0000MHz	
Line 4	Serial Number	
Line 5	Date Code	

Legend			
уу	Year		
ww	Work Week		

Pin	Function
1	RF Output
4	Case Ground
7	V _{TUNE}
17	Oven Ready
19	Supply Voltage
2, 6, 13, 15	No Connection



Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
7/01/13	В	BRM	Corrected a typographical error in the Maximum Current Consumption specification point. Specifically, removed the 3.6 in the typical column.
6/18/13	A	BRM	Corrected the misspelling of the customer name in the datasheet header and the model number in the marking specification.
4/17/13	0	BRM	Original Release.