



# Specification for a Sinewave Output Thru-Hole OCXO MtronPTI P/N: XO5085-093R

# **Electrical Specifications:**

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions	
Nominal Frequency	Fo		50.000000		MHz		
		F	requency Stat	oilities			
Initial Tolerance		-0.085		+0.085	ppm	@25C Vc:5Vdc at the time of shipment	
vs. Temperature	∆F⊤/F	-0.250		+0.250	ppm	Over the operating temperature range of -40°C to +85°C	
vs. Supply		-0.01		+0.01	ppm	5% change	
vs. Load		-0.005		+0.005	ppm	5% change	
Aging per day @30days		-0.01		+0.01	ppm		
Aging 1-year after 30days		-0.50		+0.50	ppm		
Aging 10-years		-0.75		+0.75	ppm		
Short Term Stability			1 x 10 <sup>-10</sup>			Tau = 1sec	
			RF Output	t			
Output Type			Sinewave				
Output Level		+7			dBm		
Output Load		47.5	50	52.5	Ω	±5%	
		Frequency	y Adjustment(	positive slop	be)		
Adjustment Method			External	Voltage			
Adjustment Voltage	VTUNE	0	+5	+10	VDC		
Adjustment Range/Pull			+/- 1.1		ppm		
Input Impedance			100		kohm		
Linearity			10%				
		A	dditional Para	neters			
Phase Noise				-100	dBc/Hz	10Hz Offset	
				-128	dBc/Hz	100Hz Offset	
				-155	dBc/Hz	1kHz Offset	
				-165	dBc/Hz	10kHz Offset	
				-165	dBc/Hz	100kHz Offset	
Harmonics				-30	dBc		
Spurious				-90	dBc		
Warm-up Time				5	minutes	<ul> <li>@ 25°C, After turn on from cold, OCXO to be within</li> <li>0.1ppm of final frequency at 30minutes</li> </ul>	
			pply Voltage 8			T	
Operating Temperature	TA	-40		+85	0°		
Storage Temperature	Ts	-55		+95	O°		
Operating Voltage	Vs	+11.4	+12.0	+12.6	V <sub>DC</sub>		
Power Consumption				2.5	Watts	Steady state @ 25°C, In Still Air	
				4.0	Watts	@ Start-up 25°C	

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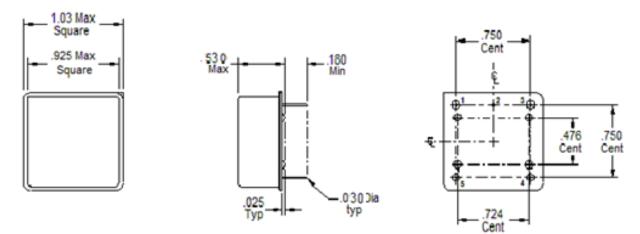
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#### **Environmental Conditions:**

Shock	MIL-STD 202G, Method 213 Condition C (survival)
Vibration	MIL-STD 202G, Method 204Condition A (survival)
MSL	Level 1
Seal	Hermetic
RoHS	Full RoHS Compliance

## Mechanical, Marking and Layout Information:

	Part Marking		Legend	F	Pin	Function
Line 1	MtronPTI	уу	Year		1	Output
Line 2	XO5085-093R	ww	Work Week		2	RF & Case Ground
Line 3	50.0000MHz				3	Voltage Control
Line 4	Serial Number				4	NC
Line 5	Date Code				5	+VDC



## **Data Sheet Revision Table:**

Date	Rev.	Orig.	Details of Revision
07/25/18	В	DPD	Revised to match customer requirements.
06/15/18	А	DPD	Original Draft.