

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: XO5085-101R

## **Electrical Specifications:**

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions		
Nominal Frequency	FO		100.0000		MHz			
			Frequency Stab	ilities				
vs. Temperature	ΔFT/F	-50	+50	+50	ppb	Over the Operating		
•	Δι [/1			130	ppo	Temperature Range		
vs. Supply voltage variation		-30		+30	ppb	+/-250mV change in supply voltage		
Daily Aging		-5		+5	ppb			
1 Year Aging		-0.5		+0.5	ppm	After 30-days Power On		
20-Years Aging		-2.0		+2.0	ppm			
			RF Output					
Output Type			Sinewave					
Output Level			12		dBm			
Output Load			50		Ω	±10%		
		F	requency Adjus					
Adjustment Method			External	/oltage				
Adjustment Voltage	VTUNE	0		+10	VD			
Adjustment Range		±1.0			ppm	Over all conditions		
Adjustment Slope			Posit					
			Additional Paran	neters				
				-100	dBc/Hz	10Hz Offset		
Phase Noise				-132	dBc/Hz	100Hz Offset		
(Under Static				-162	dBc/Hz	1kHz Offset		
,				-172	dBc/Hz	10kHz Offset		
Conditions)				-178	dBc/Hz	100kHz Offset		
				-178	dBc/Hz	1MHz Offset		
				-178	dBc/Hz	10MHz Offset		
Harmonics				-25	dBc			
Spurious				-80	dBc			
						To within ±0.1ppm of the		
Warm-up Time				5	minutes	frequency after 1-hour		
						of operation @ 25°C		
	Temr	perature. Sur	pply Voltage & F	Power Consu	mption	-		
Operating Temperature	OTR	-40		+85	°C	Full Specification		
						Compliance		
Storage Temperature	STR	-55		+85	°C	Compilation		
Operating Voltage	VCC	+11.4	+12.0	+12.6	VD			
- I	30		1.5	==	_	Steady state @ 25°C,		
Power Consumption					Watts	In Still Air		
				4.0	Watts	@ Warm-up		



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: XO5085-101R

#### **Environmental Conditions:**

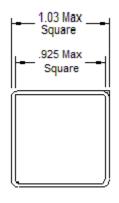
Seal	Hermetic
RoHS	Full RoHS Compliance

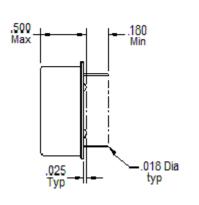
## Mechanical, Marking and Layout Information:

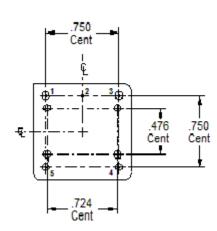
Part Marking		
Line 1	XO5085-101R	
Line 2	100.0000MHz	
Line 4	Serial Number	
Line 5	Date Code	

Legend	
уу	Year
ww	Work Week

Pin	Function
1	RF Output
2	Case Ground
3	V <sub>TUNE</sub>
4	N/C
5	Supply Voltage







## **Data Sheet Revision Table:**

Date	Rev.	Orig.	Details of Revision
01-09-19	Α	DPD	Original release