

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: XO5085-070R

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	FO		100.0000		MHz	
Frequency Stabilities						
vs. Temperature	ΔFT/F	-100		+100	ppb	Over the Operating
·	ΔΓ]/Γ					Temperature Range
vs. Supply voltage		-30		+30	ppb	5% change in supply
variation					1 1	voltage
Daily Aging		-5		+5	ppb	4 _
1 Year Aging		-0.5		+0.5	ppm	After 30-days Power On
20-Years Aging		-2.0	D-0 : :	+2.0	ppm	
O 10 1 T			RF Output			1
Output Type			Sinewave	T		
Output Level			7		dBm	1400/
Output Load		_	50	<u> </u>	Ω	±10%
		F	requency Adjus			
Adjustment Method	\		External '		1 1/-	
Adjustment Voltage	VTUNE	0		+5	VD	
Adjustment Range		±1.5			ppm	Over all conditions
Adjustment Slope			Posit			
			dditional Parar		1- 6.	The second second
				-97	dBc/Hz	10Hz Offset
Phase Noise				-130	dBc/Hz	100Hz Offset
(Under Static				-158	dBc/Hz	1kHz Offset
I -				-167	dBc/Hz	10kHz Offset
Conditions)				-170	dBc/Hz	100kHz Offset
				-170	dBc/Hz	1MHz Offset
				-170	dBc/Hz	10MHz Offset
G-sensitivity				0.3	ppb/g	
Harmonics				-25	dBc	
Spurious				-75	dBc	
						To within ±0.1ppm of the
Warm-up Time				5 minutes	minutes	frequency after 1-hour
						of operation @ 25°C
Temperature, Supply Voltage & Power Consumption						
Operating Temperature	OTR	-40		+85	°C	Full Specification
	-	-				Compliance
Storage Temperature	STR	-55		+85	°C	
Operating Voltage	VCC	+4.75	+5.0	+5.25	VD	
			1.5		Watts	Steady state @ 25°C,
Power Consumption				4.0	Watts	In Still Air @ Warm-up
				4.0	vvalls	I @ vvaiiii-up



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Environmental Conditions:

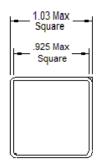
Seal	Hermetic
RoHS	Full RoHS Compliance

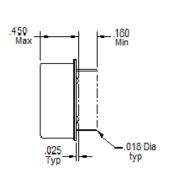
Mechanical, Marking and Layout Information:

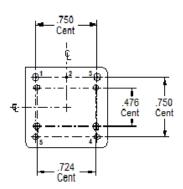
Part Marking		
Line 1	XO5085-070R	
Line 2	100.0000MHz	
Line 4	Serial Number	
Line 5	Date Code	

Legend		
уу	Year	
ww	Work Week	

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







UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .XX ± .01 JXXX ± .005

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
05-22-17	С	DPD	PN spec updated to -167dBc/Hz @ 10kHz offset from -160dBc/Hz @ 10kHz
02-23-17	В	DPD	Height updated from 0.500 mil to 0.450 mil
02-20-17	Α	DPD	Original release