



Specification for a Sinewave Output Thru-Hole OCXO MtronPTI P/N: XO5085-106R

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		100.000000		MHz	
		F	Frequency Stab	oilities		
vs. Temperature	∆F⊤/F	-100		+100	ppb	Over the Operating 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		-1.25		+1.25	ppm	
Retrace		-20		-20	ppb	After 30-minutes power on following 24-hours off
			RF Output			
Output Type			Sinewave			
Output Level			+10	+15.0	dBm	
Output Load			50		Ω	±10%
		F	requency Adjus	stment		
Adjustment Method			External			
Adjustment Voltage	VTUNE	0		+10	V _{DC}	
Adjustment Range		+/-1.0			ppm	Over all conditions
Adjustment Slope			Posit	ive		
		Α	dditional Parar	neters		
				-100	dBc/Hz	10Hz Offset
Phase Noise				-130	dBc/Hz	100Hz Offset
(Under Static				-155	dBc/Hz	1kHz Offset
Conditions)				-165	dBc/Hz	10kHz Offset
				-168	dBc/Hz	100kHz Offset
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
			pply Voltage &			
Operating Temperature	OTR	-40		+85	°C	Full Specification Compliance
Storage Temperature	STR	-55		+85	0°	
Operating Voltage	Vcc	+11.4	+12.0	+12.6	VDC	
Power Consumption			1.0		Watts	Steady state @ 25°C, In Still Air
				3.6	Watts	@ Warm-up



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Environmental Conditions:

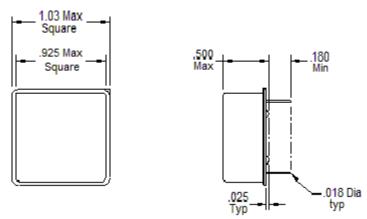
Seal	Hermetic
RoHS	Full RoHS Compliance

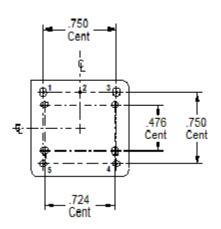
Mechanical, Marking and Layout Information:

Part Marking	
Line 1	MtronPTI
Line 2	XO5085-106R
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	N/C
5	Supply Voltage





Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
01-30-19	А	DPD	Original release