



Specification for a Sinewave Output Thru-Hole OCXO MtronPTI P/N: XO5085-019R

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		100.000000		MHz	
		Fi	equency Stat	bilities		
vs. Temperature	ΔF _T /F	-500		+500	ppb	Peak-Peak over the operating temperature range
10-Years Aging		-1		+1	ppm	After 30-days Power On
Short Term Stability (ADEV)			1 x 10 ⁻¹¹			Tau = 1sec
			RF Outpu	t		
Output Type			Sinewave			
Output Level			+10		dBm	Into a 50Ω Load
Output Load			50		Ω	±10%
		Fre	equency Adju	stment		
Adjustment Method			External			
Adjustment Voltage	VTUNE	0		+10	VDC	
Adjustment Range		Sufficient	for 10-years a	djustment for	all causes	
Tuning Slope			Posi	itive		
Input Impedance		1			MΩ	
Modulation Bandwidth		1			kHz	
		Ac	ditional Para	meters	·	·
Phase Noise			-100		dBc/Hz	@ 10Hz Offset
(Under Static			-132		dBc/Hz	@ 100Hz Offset
Conditions)			-162		dBc/Hz	@ 1kHz Offset
			-170		dBc/Hz	@ 10kHz Offset
			-170		dBc/Hz	@ 100kHz Offset
Phase Noise			-65.7		dBc/Hz	@ 10Hz Offset
(Under Dynamic			-75.2		dBc/Hz	@ 30Hz Offset
Conditions, 0.06g ² /Hz			-85.7		dBc/Hz	@ 100Hz Offset
10Hz to 1000Hz,			-95.2		dBc/Hz	@ 300Hz Offset
0.015g²/Hz @ 2000Hz,			-99.7		dBc/Hz	@ 500Hz Offset
10Grms)			-105.7		dBc/Hz	@ 1kHz Offset
			-117.7		dBc/Hz	@ 2kHz Offset
Harmonics				-30	dBc	
Spurious				-80	dBc	
G-sensitivity				0.2	ppb/g	
Warm-up Time				5	minutes	@ 25°C, relative to 2-hrs after turn-on following 24- hrs off. To within ±0.1ppm of final frequency.
						or final frequency.





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Temperature, Supply Voltage & Power Consumption						
Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+105	°C	
Operating Voltage	Vs	+11.4	+12.0	+12.6	VDC	
Power Consumption				1.5	Watts	Steady state @ 25°C,
						In Still Air
				5.0	Watts	@ Warm-up

Environmental Conditions:

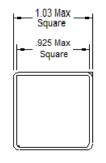
MSL	Level 1
Seal	Hermetic
Altitude (operating)	40,000-ft
Vibration (operating)	10Hz to 1000Hz 0.06g ² /Hz, 100Hz to 2000H -6dB/Octave, 10g's RMS
Shock (survival)	12g for 11msec, three axes (secure when mounting using MIL-Grade epoxy)
Humidity	95% to 100% relative humidity (+28°C to +85°C)

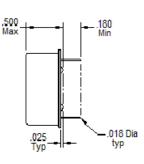
Mechanical, Marking and Layout Information:

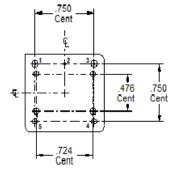
	Part Marking			
Line 1	MtronPTI			
Line 2	XO5085-019R			
Line 3	100.0000MHz			
Line 4	Serial Number			
Line 5	Date Code			

	Legend
уу	Year
ww	Work Week

Pin	Function
1	RF Output
4	Case Ground
7	V _{TUNE}
13	N/C
19	Supply Voltage







Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
08/20/14	В	DPD	Updated to ROHS compliant part
07/29/14	А	BRM	Updated the Short Term Stability (ADEV) specifications point.
03/05/14	-	BRM	Original Release.

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