



Specification for a Sinewave Output SMD OCXO MtronPTI P/N: XO5083-079sR

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		10.000000		MHz	
			Frequency Stabil	lities		
vs. Temperature	∆F⊤/F	-20		+20	ppb	Over the Operating Temperature Range (OTR)
vs. Supply Voltage		-2		+2	ppb	±5% change in Vs
Aging After		-0.5		+0.5	ppb	Per Day
(30-days Power Op)		-20		+20	ppb	Per 90 Days
(So-days I ower Off)		-50		+50	ppb	Yearly
Short Term Stability (Root Allan Variance)			1x10-11			Tau = 1-second
			RF Output			
Output Type			Sinewave			
Output Level		+7			dBm	
Output Load			50		Ω	±10%
		F	requency Adjust	ment		
Adjustment Method			External \	/oltage		
Adjustment Voltage	VTUNE	0		+4.1	VDC	
Adjustment Range			±1.0		ppm	Sufficient for 10-years correction for all causes
Reference Voltage	Vref		+4.1		VDC	1 <i>mA</i> maximum
Linearity				10	%	
Adjustment Slope			Posit	ive	•	
		ŀ	Additional Param	eters		·
			-125		dBc/Hz	10Hz Offset
Phase Noise			-145		dBc/Hz	100Hz Offset
(Under Static Conditions)			-155		dBc/Hz	1kHz Offset
			-160		dBc/Hz	10kHz Offset
						To within ±0.1ppm of the
Warm-up Time				3	Minutes	frequency after 1-hour of
						operation @ +25°C
	Те	mperature, Si	upply Voltage & I	Power Consu	mption	
Operating Temperature	OTR	-40		+85	°C	
Storage Temperature	STR	-45		+90	°C	
Operating Voltage	Vs	+4.75	5.0	+5.25	V _{DC}	
Power Consumption			1.5		Watts	Steady state @ +25°C
(in still air)				4.0	Watts	@ Warm-up
Seal	Hermetic					· · · · ·
Solderability	Tiermette					
Soluerability	Per EIAJ-STE	0-002				



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Mechanical, Marking and Layout Information:

Part Marking		
Line 1	MtronPTI	
Line 2	XO5083-079sR	
Line 3	10.0000MHz	
Line 4	Serial Number	
Line 5	Date Code	

Legena				
уу	Year			
ww	Work Week			

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





PIN NO'S, SHOWN FOR REFERENCE ONLY.



Figure 1: XO5083-079sR Outline Drawing



Figure 2: Suggested Pad Layout



Figure 3: Reflow Solder Profile

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
07/08/14	В	BRM	Corrected typographical errors in the Steady State Power Consumption which is typical, was maximum, and Figure 1 text (was-078sR, is now -079sR).
07/01/14	A	BRM	Original Release