



Specification for an LVCMOS SMD OCXO MtronPTI P/N: XO5084-063sR

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		40.000000		MHz	
			Frequency Stabilities		-	
vs. Temperature	$\Delta F_T/F$	-20		+20	ppb	over operating temperature range
vs. Supply Voltage	$\Delta F_{VDD}/F$	-3		+3	ppb	+/- 100mV change in Voltage
1 Year Aging				±0.25	ppm	At the time of Shipment
10 year Aging (long term stability)				±1.0	ppm	After 30 days continuous operation @ +25°C : For all causes that includes F/T, supply sense and aging
			Frequency Adjust			
Adjustment Method			External Voltage			
Adjustment Voltage	Vtune	0		5	Vdc	
Tuning			+/- 2		ppm	
Adjustment Slope			Positive			
			RF Output			
Output Type			CMOS			
Output Load			15		pF	
Symmetry (duty cycle)	T _{DC}	47.5	50	52.5	%	@ 50% of waveform
Logic "1" Level	Voh	4.8			V	
Logic "0" Level	Vol			0.2	V	
		Temp	perature and Supply Vol	tage		
Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-50		+90	°C	
Operating Voltage	V _{DD}	4.75	5	5.25	V	
Power Consumption			1.5		w	Steady state @ 25°C In still air
				5	W	@ warm-up
						Time to be within ±100 ppb of
Warm-up Time (Restabilization)				5	Minutes	the frequency after 24 hours of operation @ 25°C
·			Additional Parameters			
				-90	dBc/Hz	10 Hz
				-117	dBc/Hz	100 Hz
Phase Noise (under static conditions)				-147	dBc/Hz	1KHz
				-157	dBc/Hz	10 KHz
				-157	dBc/Hz	100 KHz
G-sensitivity				0.5	ppb/g	Worst case axis





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Environmental Conditions:

Mechanical Shock	Per MIL-STD-202, Method 213, (2000 g's, 0.3 ms duration, ¹ / ₂ Sinewave)	
Vibration (survival)	Per MIL-STD-202, Method 201 & 204 (10 g's from 20-2000 Hz)	
Solderability	Per EIAJ-STD-002	
Soldering Conditions	220C peak for 10 sec or hand solder	
RoHS	Full RoHS 6 Compliance except surface mountable board would be attached with Sn10.	

Mechanical, Marking and Layout Information:

Part Marking				
Line 1	MtronPTI			
Line 2	XO5084-063sR			
Line 3	40.0000MHz			
Line 4	Serial Number			
Line 5	Date Code			

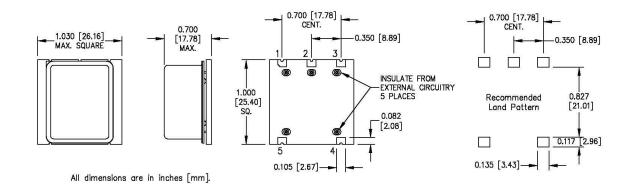


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author.	Details of Revision
10-20-15	E	DPD	Phase noise spec firmed up as per customer request after proto build. Figure 1. Changed to be representative of product.
04-23-15	D	DPD	Supply sensitivity spec changed from +/- 1ppb to +/- 3ppb-Customer Approved 4-23-15
03-02-15	С	DPD	1 year aging spec changed to +/-0.25ppm and notes added into phase noise specs.
02-26-15	В	DPD	Phase noise spec changed to max. Added long term stability spec
02-12-15	А	DPD	Preliminary Datasheet