



Specification for a Stratum 3E LVCMOS SMT OCXO MtronPTI P/N: XO5184-015sR

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		12.800000		MHz	
Initial Accuracy	Fi	-100		+100	ppb	@ 25°C at time of shipment
		Fr	equency Stat	oilities		
Overall		-4.6		+4.6	ppm	
vs. Temperature	∆F⊤/F			10	ppb	Over operating temperature range
vs. Supply Voltage	$\Delta F_{VDD}/F$	-3		+3	ppb	5% change in voltage
Short Term Stability			1 x 10 ⁻¹¹		per sec.	Allan Variance Tau = 1 sec.
Holdover/Day		-1		+1	ppb	Constant voltage and load; <±3°C change in 24 hours
1 Month Aging		-30		+30	ppb	After 30 days continuous operation @ 25°C
1 Year Aging		-100		+100	ppb	After 30 days continuous operation @ 25°C
20 Year Aging		-2.0		+2.0	ppm	After 30 days continuous operation @ 25°C
			RF Outpu	t		
Output Type			LVCMOS			
Output Load			15		pF	+/- 5% change
Symmetry (duty cycle)	T _{DC}	40	50	60	%	@ 50% of waveform
Rise/Fall Time	T _R /T _F			10	ns	From 10% to 90% Vout
Logic "1" Level	Vон	90% V _{DD}			V	LVCMOS Load
Logic "0" Level	Vol			10% V _{DD}	V	LVCMOS Load
			ature and Sup	oply Voltage		
Operating Temperature	TA	-40		+85	С°	
Storage Temperature	Ts	-50		+105	С°	
Operating Voltage	Vdd	3.135	3.3	3.465	V	
Power Consumption				1.3	Watts	Steady state @ 25°C In still air
				3.3	Watts	@ warm-up
Warm-up Time (Restabilization)				5	Minutes	Time to be within ±0.1 ppm of the frequency after 1 hour of operation @ 25°C
		Ad	ditional Para	meters	ſ	1
			-80		dBc/Hz	1 Hz
			-110		dBc/Hz	10 Hz
Phase Noise (typical)			-130		dBc/Hz	100 Hz
			-145		dBc/Hz	1 kHz
			-150		dBc/Hz	10 kHz

1 of 2 The information contained herein is proprietary to MtronPTI and is submitted in confidence. This information may not be copied or divulged without written permission from MtronPTI.



2525 Shader Road, Orlando Florida 32804 USA Phone: 407-298-2000 Fax: 407-293-2979 Website: mtronpti.com NYSE MKT: LGL



Specification for a Stratum 3E LVCMOS SMT OCXO MtronPTI P/N: XO5184-015sR

Environmental Conditions:

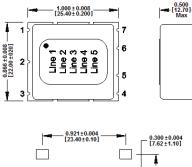
Solderability	Per EIAJ-STD-002
Soldering Conditions	See figure 1
RoHS	Full RoHS 6 Compliance

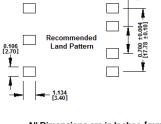
Mechanical, Marking and Layout Information:

Part Marking	
Line 1	MtronPTI
Line 2	XO5184-015sR
Line 3	12.80MHz
Line 4	Serial Number
Line 5	Date Code

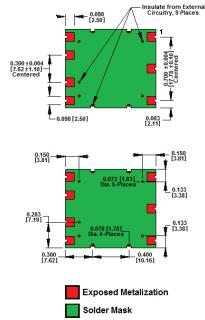
	Legend	
уу	Year	
ww	Work Week	

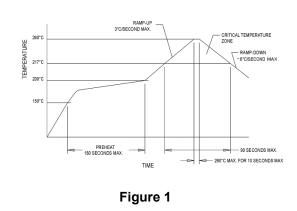
Pin	Function
1	N/C
2	N/C
3	Supply Voltage
4	RF Output
5	N/C
6	N/C
7	Case Ground





All Dimensions are in Inches [mm] PAD Numbers are Shown for Reference Only Tolerances Unless Otherwise Cited are $.xx = \pm .01$ $.xxx = \pm .005$





Data Sheet Revision Table:

	Date	Rev.	Orig.	Details of Revision
	07-01-14	G	BRM	Removed hermeticity specification point.
	12-17-13	F	BRM	Removed redundant units (per sec) in the Units filed for Short Term Stability.
	11-07-13	E	BRM	Updated the Outline Drawings for Improved Detail and Clarity at the customer's request.
	08-24-13	D	MM	Updated Frequency vs Stability Specification.
[08-13-12	С	MM	Updated Short Term Stability Specification.
	05-14-12	В	MM	Updated Mechanical Drawing.
	02-13-12	Α	MM	Added Cisco part number.
	07-08-11	0	MM	Original Release.

2 of 2

The information contained herein is proprietary to MtronPTI and is submitted in confidence. This information may not be copied or divulged without written permission from MtronPTI.