

Specification for SMD OCXO MtronPTI P/N: XO5184-043sR

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F ₀		20.000000		MHz	
Frequency Stabilities						
Overall		-4.6		+4.6	ppm	
vs. Temperature	ΔF _T /F			10	ppb	over operating temperature range
vs. Supply Voltage	ΔF _{VDD} /F	-4		+4	ppb	100mV change in Voltage
Allan Deviation (in still air)	A _{DEV}		2 x 10 ⁻¹¹			Tau = 1 sec
Holdover/Day		-10		+10	ppb	Constant voltage and load; <±3°C change in 24 hours
1 Year Aging		-600		+600	ppb	After 30 days continuous operation @ +25°C
10 Year Aging		-2		+2	ppm	After 30 days continuous operation @ +25°C
RF Output						
Output Type		HCMOS				
Output Load			15		pF	
Symmetry (duty cycle)	T _{DC}		50		%	@ 50% of waveform
Logic "1" Level	V _{OH}	90% V _{DD}			V	
Logic "0" Level	V _{OL}			10% V _{DD}	V	
Frequency Adjustment						
External Tuning Voltage	V _C	0		+3.0	V _{DC}	
Tuning Range		+/-2.0				
Slope		Positive				
Temperature and Supply Voltage						
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-50		+105	°C	
Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
Current Consumption			1.0		W	Steady state @ 25°C In still air
				3.5	W	@ 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
Additional Parameters						
SSB Phase Noise			-90		dBc/Hz	10 Hz
			-115		dBc/Hz	100 Hz
			-130		dBc/Hz	1 kHz
			-145		dBc/Hz	10 kHz

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Environmental Conditions:

Mechanical Shock	Per MIL-STD-202, Method 213, (2000 g's, 0.3 ms duration, ½ Sinewave)
Vibration (survival)	Per MIL-STD-202, Method 201 & 204 (10 g's from 20-2000 Hz)
Solderability	Per EIAJ-STD-002
Soldering Conditions	See figure 1
RoHS	Full RoHS 6 Compliance

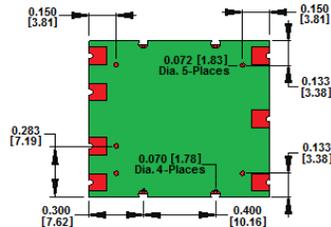
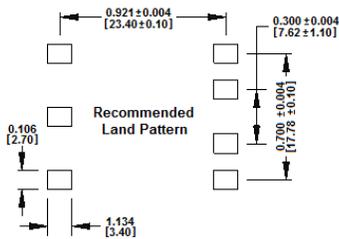
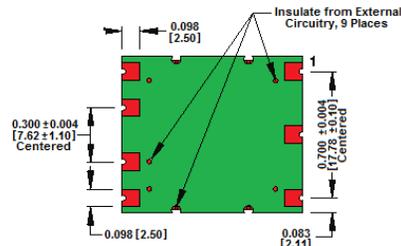
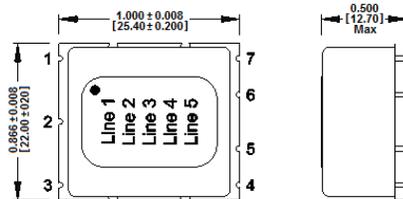
Mechanical, Marking and Layout Information:

MtronPTI
XO5184-043sR
20MHz
Serial Number
Date Code

Legend	
yy	Year
ww	Work Week

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

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS
.XX ± .01
.XXX ± .005



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

■ Exposed Metalization
■ Solder Mask

Note: The XO5184-043sR is a non-hermetic and non-washable OCXO

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Solder Profile:

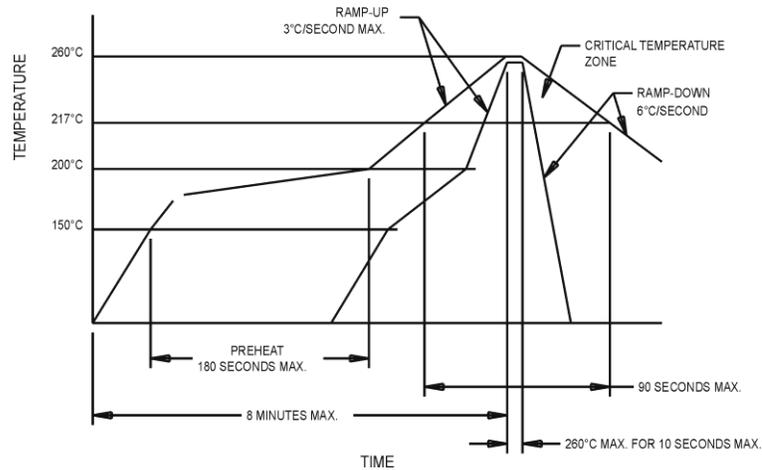


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author.	Details of Revision
12-20-18	B	DPD	Vtune added.
05-25-17	A	MM	Original release