

1703 E. Highway 50 Yankton, SD 57078 USA

Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709

Website: www.mtronpti.com



SPECIFICATION FOR RoHS 6 COMPLIANT SMT TCXO MtronPTI P/N M6164S043

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		20.000000		MHz	
Frequency Tolerance		-1.0		+1.0		@ +25°C
		Freq	uency Stabili	•		
vs Temperature	ΔF/F	-4.6		+4.6	ppm	Over operating temperature range (Relative to frequency @+25°C)
vs Aging		-4.0		+4.0	ppm	10 years @ +55°C
vs. Supply	Fvs		± 0.02	± 0.1	ppm	For 5% voltage change
vs. Load	F∟		± 0.02	± 0.1	ppm	For 5% load change
			Output			
Output Type		HCI	MOS Compati	ble		
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	40	50	60	%	@ 50% of V _{DD}
Output Logic Levels	Vol			20	% V _{DD}	
Output Level	Vон	80			% V _{DD}	
Rise/Fall Time				6.5	nS	Ref. 10% and 90%
Tri-state Function		Logic "1", or floating, output Enabled. Logic "0", output Disabled.			Pad 8	
Start-up Time	Tsu			10	mS	
·		Additio	nal Specifica			
			-101			@ 10Hz Offset
SSB Phase Noise (Under Static Conditions)			-123			@ 100Hz Offset
			-145		dBc/Hz	@ 1kHz Offset
			-155			@ 10kHz Offset
			-156			@ 100kHz Offset
G-sensitivity			0.6	1.2	ppb/g	See Table 1
	Supply Voltage & Power Consumption					
Operating Voltage	V _{DD}	3.135	3.3	3.465	V_{DC}	
Operating Current	I _{DD}			5	mA	

Environmental & Mechanical Requirements:

Operating Temperature	TA	-40		+85	°C			
Storage Temperature	Ts	Ts -55 +125 °C						
Mechanical Shock	Per MIL-S	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sine wave)						
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000Hz)							
Solderability	Per MIL-STD-202, Method 208, except steam aging is not required							
Max. Soldering Conditions	See solder profile, Figure 1							
Package Type	5.0 x 7.0 x 1.6mm, 10-pad Ceramic Leadless Chip Carrier. RoHS Compliant.							



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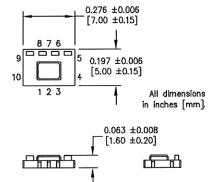
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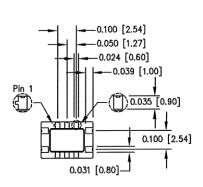


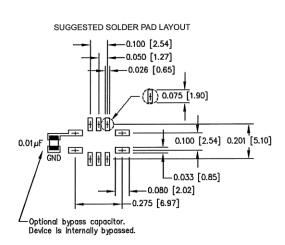
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Mechanical, Marking and Layout Information:

Pad	Function				
1	N/C				
2	N/C				
3	N/C				
4	Ground/Case				
5	Output				
6	N/C				
7	N/C				
8	Tristate				
9	+V _{DD}				
10	N/C				









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Solder Profile:

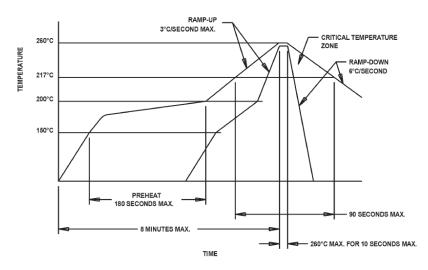
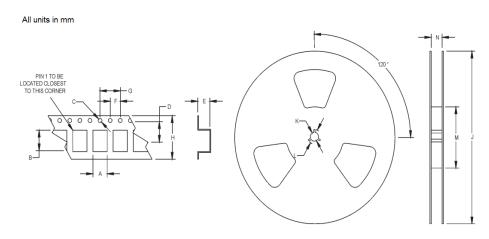


Figure 1

Tape and Reel Specifications:



Tape and	d Reel S	pecifica	ations								
Α	В	С	D	Е	F	G	Н	J	K	L	M
5.32	7.28	1.5	7.5	2.2	4	8	16	178	13.5	24.8	80

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
01/26/18	0	MM	Original Release.