

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 M6164S029

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		32.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
		Freq	uency Stabili	ties		
vs Temperature	ΔF/F			0.5	ppm	(F _{MAX} -F _{MIN})/2 Over operating temperature range
vs Aging		-2.0		+2.0	ppm	1 st year
Frequency vs. Supply	Fvs		± 0.02	± 0.1	ppm	For 5% voltage change
Frequency vs. Load	FL		± 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 VDD
Output Logic Levels	Vol			20	% Vcc	
Output Level	Voн	80			% Vcc	
Rise/Fall Time				6.5	nS	Ref. 10% and 90%
Tri-state Function		Logic "1", or floating, output Enabled. Logic "0", output Disabled.			led.	Pad 8
Start-up Time	Tsu			10	mS	
•		Additio	onal Specifica			
			-90			@ 10Hz Offset
			-118			@ 100Hz Offset
SSB Phase Noise			-140		-ID - /L I	@ 1kHz Offset
(Under Static Conditions)			-154		dBc/Hz	@ 10kHz Offset
,			-158			@ 100kHz Offset
			-158			@ 1MHz Offset
G-sensitivity			0.6		ppb/g	
	Su	pply Volta	ge & Power C	onsumpt		
Operating Voltage	V _{DD}	3.135	3.3	3.465	V _{DC}	
Operating Current	IDD			5	mA	

Environmental & Mechanical Requirements:

Operating Temperature	TA	-40		+85	°C		
Storage Temperature	Ts	-55		+125	°C		
Mechanical Shock	15,000 g's peak						
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)) Hz)		
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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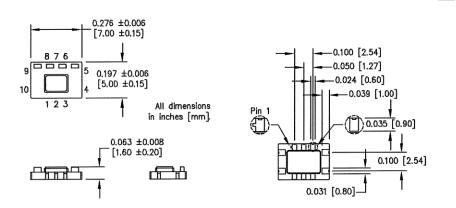


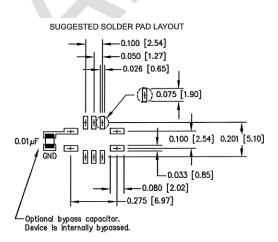
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Mechanical, Marking and Layout Information:

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	





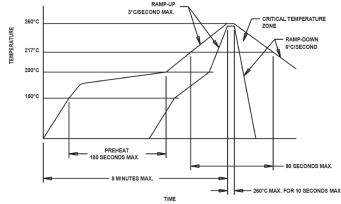


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision		
07/24/15	0	MM	Original Release.		