

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 SMT TCXO MtronPTI P/N M6164S041

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		20.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
		Fre	equency Stabi	lities		
Frequency vs. Temperature	Δ F/F			1.0	ppm	(F _{MAX} -F _{MIN})/2
Aging		-5.0		+5.0	ppm	10 years
Frequency vs. Supply	Fvs		± 0.02	± 0.1	ppm	For 5% voltage change
Frequency vs. Load	F∟		± 0.02	± 0.1	ppm	For 5% load change
			Output			
Output Type		Clipped Sine Wave				
Output Load		10kΩ // 10 <i>pF</i>				
Output Level	Vouт	0.8			V_{pk-pk}	
Tristate Function			or floating, outp	Pad 8		
		Logic "0", c	output Disabled	1 au o		
Startup Time	Tsu			10	ms	
		Addi	tional Specific	cations		
SSB Phase Noise (Under Static Conditions)			-94			@ 10Hz Offset
			-123			@ 100Hz Offset
			-145		dBc/Hz	@ 1kHz Offset
			-154			@ 10kHz Offset
			-156			@ 100kHz Offset
G-sensitivity			1.3		ppb/g	
		Supply Volt	age & Power	Consumptio	n	
Operating Voltage	V_{DD}	3.135	3.3	3.465	V _{DC}	
Operating Current	I _{DD}			4.0	mA	

Environmental & Mechanical Requirements:

Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Mechanical Shock	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 10-2000 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 2.0mm, 10-pad Ceramic Leadless Chip Carrier. RoHS Compliant.					



1703 E. Highway 50 Yankton, SD 57078 USA

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

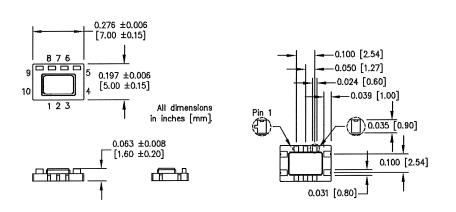
Website: www.mtronpti.com

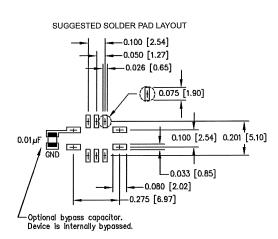


SPECIFICATION FOR SMT TCXO MtronPTI P/N M6164S041

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		





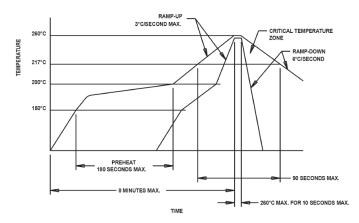


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
05/31/1	7 0	MM	Original Release.