

SPECIFICATION FOR RoHS 6 COMPLIANT SMT TCXO MtronPTI P/N M6064S034

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _o		25.000000		MHz	
Frequency Stability						
Frequency Stability	ΔF/F	-20		+20	ppm	Includes initial tolerance @ +25°C, deviation over temperature, ±5% load change, ±5% supply change and 10 year aging @ +25°C.
Output						
Output Type		HCMOS Compatible				
Output Load				15	pF	
Logic "1" Level	V _{OH}	90			% V _{DD}	HCMOS load
Logic "0" Level	V _{OL}			10	% V _{DD}	HCMOS load
Rise/Fall Time				4	ns	Ref. 20% to 80%
Symmetry		45		55	%	Ref. to ½ V _{DD}
Tristate Logic		70% V _{DD} or NC				Pad 1: Output Enabled
				30% V _{DD}		Pad 1: Output Disabled to high-Z
Start-Up Time				2	ms	
Temperature & Supply						
Operating Temperature	OTR	-40		+85	°C	
Storage Temperature	STR	-45		+125	°C	
Operating Voltage	V _s	1.71	1.80	1.89	V _{DC}	
Operating Current	I _s			2.0	mA	
Additional Specifications						
Phase Noise (Under Static Conditions)			-86	-75	dBc/Hz	10Hz Offset
			-112	-105	dBc/Hz	100Hz Offset
			-135	-132	dBc/Hz	1kHz Offset
			-149	-146	dBc/Hz	10kHz Offset
			-151	-148	dBc/Hz	100kHz Offset
			-151	-148	dBc/Hz	1MHz Offset
Phase Jitter	Φ _J		0.5	1.0	ps RMS	Integrated from: 12 KHz to 5 MHz

Environmental & Mechanical Requirements:

Shock	Per MIL-STD-202, Method 213, Condition C
Vibration	Per MIL-STD-202, Methods 201 & 204
Maximum Soldering Conditions	See Figure 1.
Solderability	Per EIAJ-STD-002
Package Type	4-pad 2.0 X 2.5 X 0.9 mm leadless ceramic. RoHS compliant

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Dimensions, Pin Out and Pad Layout Information:

Part Marking	
Line 1	25M000
Line 2	M y ww v

Legend	
y	Year
ww	Work week
v	Factory code

Pad	Function
1	Tristate
2	GND
3	Output
4	+V _{DD}

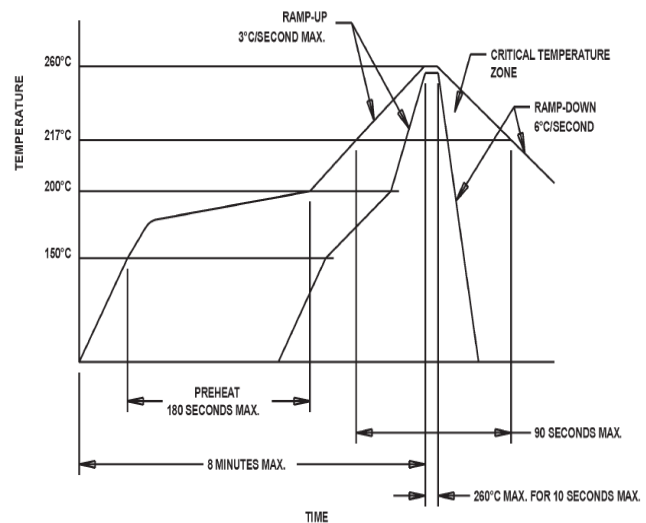
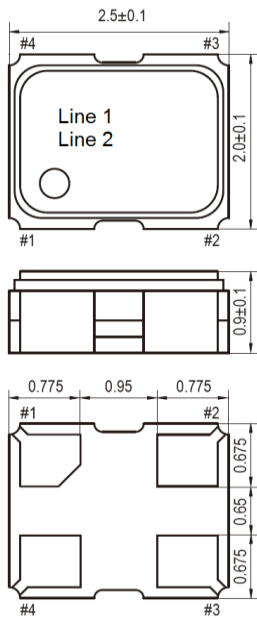


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
12/21/18	0	MM	Original Release.
06/21/19	A	MM	Revised supply current, rise/fall time and phase jitter specifications.
06/25/19	B	MM	Added phase noise specification.