

SPECIFICATION FOR RoHS 6 COMPLIANT SMT TCXO MtronPTI P/N M6064S025

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _o		32.000000		MHz	
Frequency Stability						
Initial Tolerance	ΔF/F	-1.0		+1.0	ppm	@ +25 °C, ref. to 32.000000 MHz
Tolerance After Reflow Soldering	ΔF/F	-2.0		+2.0	ppm	@ +25 °C, ref. to 32.000000 MHz, after two reflow soldering profiles (+260 °C for 10s max.)
Frequency Stability	ΔF/F	-2.5		+2.5	ppm	Deviation over operating temp. , ref. to +25 °C
Frequency vs. Supply		-0.2		+0.2	ppm	For a ±5% supply voltage change
Frequency vs. Load		-0.2		+0.2	ppm	For a ±5% load change
Aging	F _A	-1.0		+1.0	ppm	Per year @ +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				6	ns	Ref. 10% to 90%
Symmetry		40		60	%	Ref. to ½ V _{DD}
Tristate Logic		Logic "high" or "floating"				Pad 1: Output Enabled
		Logic "low"				Pad 1: Output Disabled to high-Z
Additional Specifications						
SSB Phase Noise (Under Static Conditions)			-79		dBc/Hz	@ 10 Hz Offset
			-105			@ 100 Hz Offset
			-127			@ 1 kHz Offset
			-144			@ 10 kHz Offset
			-145			@ 100 kHz Offset
Temperature & Supply						
Operating Temperature	OTR	-30		+75	°C	Device must operate: from -40°C to -30°C and +75°C to +85°C, without regard to frequency stability specification.
Storage Temperature	STR	-40		+90	°C	
Operating Voltage	V _s	2.375	2.500	2.625	V _{DC}	
Operating Current	I _s			5.2	mA	

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	3200 xxx
Line 2	M y ww v

Legend	
xxx	Internal code
y	Year
ww	Work week
v	Factory code

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

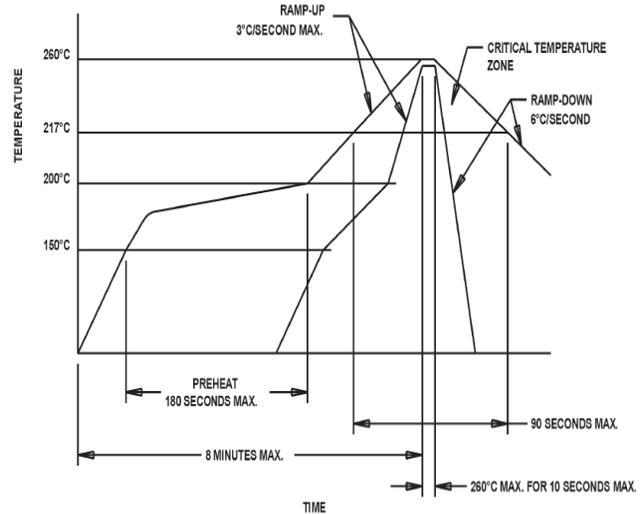
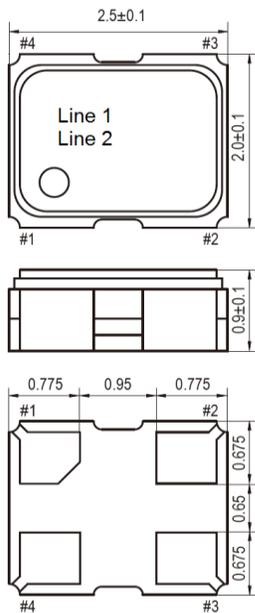


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
09/09/15	0	MM	Original Release.