

SPECIFICATION FOR RoHS 6 COMPLIANT SMT TCXO MtronPTI P/N M6064S021

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		Clipped Sine Wave				External DC-cut output capacitor (0.001 μF) required.
Output Levels	V _{Out}	0.8			V _{pk-pk}	Load =10K // 10 pF
Output Load			10		pF	
			10		kΩ	
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	-40		+85	°C	
Storage Temperature	STR	-40		+90	°C	
Operating Voltage	V _s	2.85	3.00	3.15	V _{DC}	
Operating Current	I _s			2.0	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

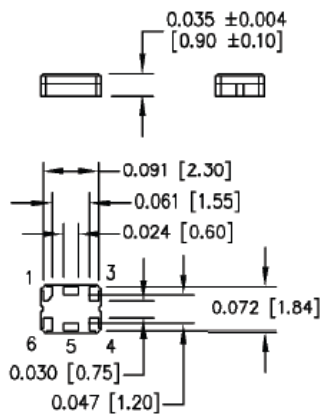
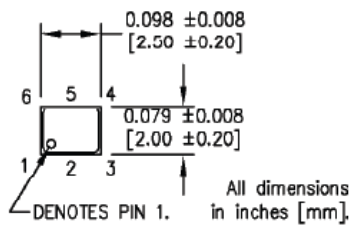
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Dimensions, Pin Out and PAD Layout Information:

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	GND
2	N/C
3	GND
4	Output
5	N/C
6	+V _{DD}



SUGGESTED SOLDER PAD LAYOUT

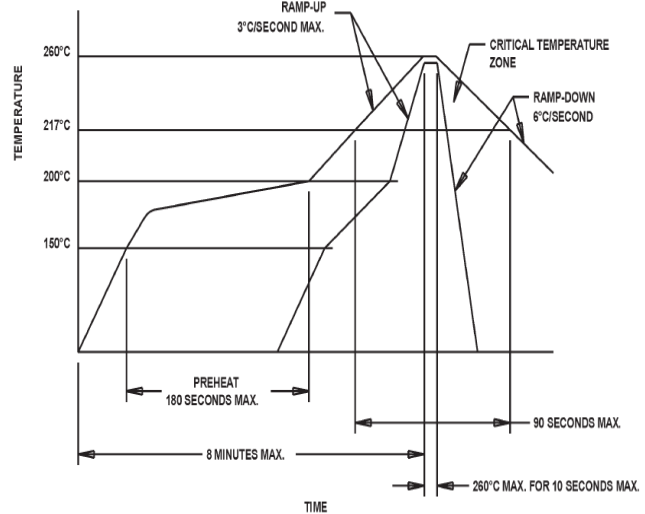
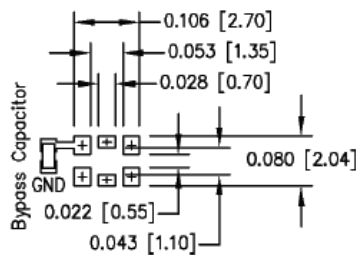


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
10/10/14	0	DCO	Original Release.