

SPECIFICATION FOR SMT TCXO

MtronPTI P/N M6164S027

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		20.000000		MHz	
Frequency Tolerance		-1.0		+ 1.0	ppm	@ +25°C
Frequency Stability	ΔF/F	-7.5		+7.5	ppm	Includes deviation over temperature, aging for 15 years, shock, vibration, load, and supply changes.
Frequency Vs. Supply			± 0.02	± 0.1	ppm	For 5% supply variation
Frequency Vs. Load			± 0.02	± 0.1	ppm	For 5% load variation
Operating Temperature	T _A	-40		+85	°C	
Operating Voltage	V _S	3.135	3.3	3.465	V	
Operating Current	I _S			3.5	mA	
Output Type		Clipped Sine Wave				
Output Load			10 10		KΩ/pF	± 5%
Output Voltage Level	V _{OUT}	1.0			V _{p-p}	
Tri-state Function		Logic "1", or floating, output Enabled. Logic "0", output Disabled.				Pad 8
g-sensitivity (worst case axis)			0.6		ppb/g	
Phase Noise			-99		dBc/Hz	@ 10 Hz
			-129		dBc/Hz	@100 Hz
			-147		dBc/Hz	@ 1 kHz
			-155		dBc/Hz	@10 kHz
			-156		dBc/Hz	@ 100 kHz

Environmental & Mechanical Requirements:

Shock	Design platform tested up to 15,000g's. Higher levels will need to be verified by customer.
Vibration	Per MIL-STD-202, Methods 201 & 204
Storage Temperature	-55°C to +125°C
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See Figure 1.
Package Type	5.0 X 7.0 X 1.8 mm, 10-pad leadless ceramic. RoHS compliant.

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Dimensions & Pin Out 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

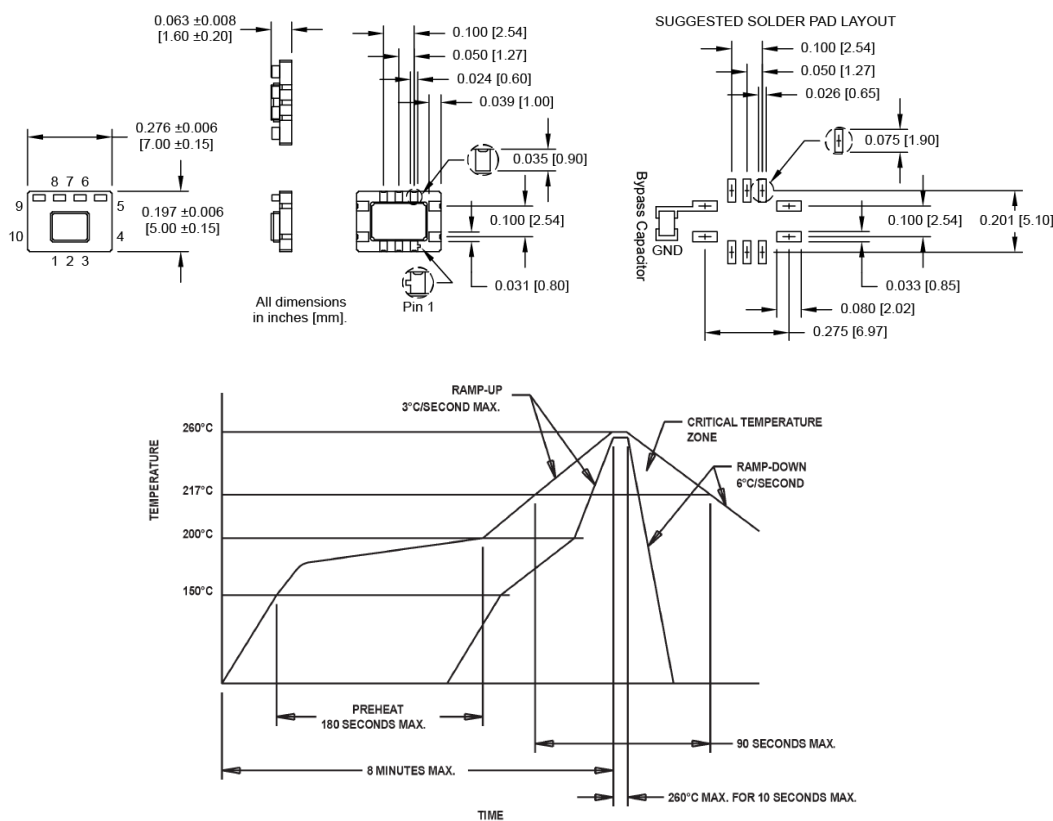


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
04-01-15	1	DPD	Pin out updated with Tristate on Pin 8
03-26-15	0	DPD	Original release.