

## SPECIFICATION FOR RoHS 6 COMPLIANT LVDS OUTPUT SMT TCXO MtronPTI P/N M6302S003

### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F <sub>O</sub>		80.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
<b>Frequency Stability</b>						
vs. Temperature	ΔF/F	-4.6		+4.6	ppm	Over operating temperature (F <sub>Max</sub> – F <sub>Min</sub> )/2
vs. Aging		-3		+3	ppm	1 <sup>st</sup> year
		-1		+1	ppm	Per year thereafter.
<b>RF Output</b>						
Output Type		Differential LVDS Compatible				
Output Load		100 Ω Differential			V	
Common Mode Output Voltage			1.2		V	
Differential Output Voltage		250	350	450	mV	LVDS Load
Symmetry (duty cycle)	T <sub>DC</sub>	45	50	55	%	Referenced to 1.25 V
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>			0.35	nS	From 20% to 80% V <sub>CC</sub>
<b>Supply Voltage &amp; Power Consumption</b>						
Operating Voltage	V <sub>CC</sub>	1.71	1.8	1.89	V	
Operating Current	I <sub>CC</sub>			100	mA	

### Environmental Conditions:

Operating Temperature	T <sub>A</sub>	-55		+125	°C	
Storage Temperature	T <sub>S</sub>	-55		+125	°C	
Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Thermal Shock	Per MIL-STD-883, Method 1011, Condition A					
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of helium)					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See Figure 1.					
Package Type	6-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant.					

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### Mechanical, Marking, and Pin Out Information:

Part Marking	
Line 1	M6302S003
Line 2	80M0000
Line 3	MPTI yyww

Legend	
yy	Year
ww	Work week

Pin	Function
1	N/C
2	N/C
3	Ground
4	Output
5	Complementary Output
6	+V <sub>CC</sub>

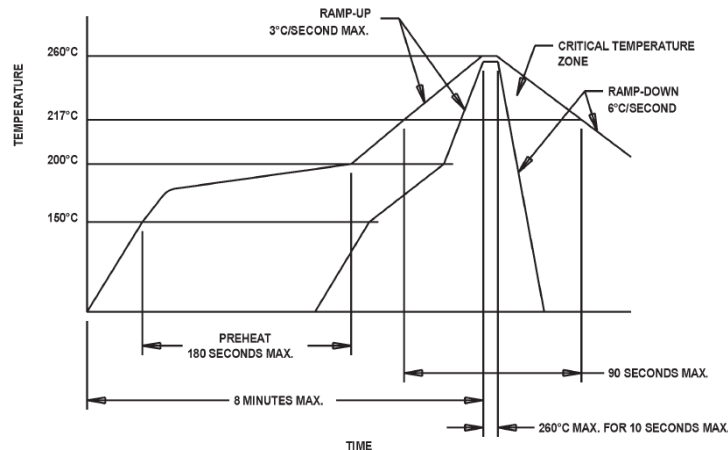
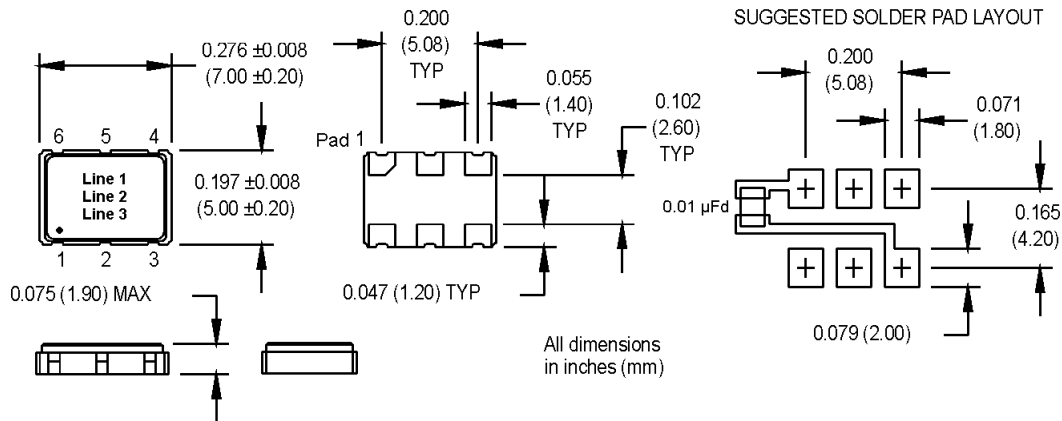


Figure 1

### Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
08/14/14	0	MM	Original release.