

## SPECIFICATION FOR RoHS 6 COMPLIANT SMT TCXO

### MtronPTI P/N: M6029S061

#### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F <sub>0</sub>		20.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	Before reflow soldering
		-2.0		+2.0		After 2 reflows, @ +260°C 10 seconds
<b>Frequency Stability</b>						
vs. Stability	$\Delta F/F$	-1.5		+1.5	ppm	Over operating temperature range
vs. Aging		-1.0		+1.0	ppm	per years
Frequency vs. Supply				±0.2	ppm	For 5% supply variation
Frequency vs. Load				±0.2	ppm	For 10% load variation
<b>RF Output</b>						
Output Type		Clipped Sine Wave				
Output Load		10 kΩ    10 pF				
Output Level	V <sub>OUT</sub>	0.8			V	pk-pk
<b>Supply Voltage &amp; Power Consumption</b>						
Operating Voltage	V <sub>DD</sub>	3.135	3.3	3.465	V	
Operating Current	I <sub>DD</sub>			3.0	mA	

#### Environmental Conditions:

Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Storage Temperature	T <sub>S</sub>	-55		+125	°C	
Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6msec duration, ½ sinewave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000Hz)					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of Helium) (Crystal Only)					
Solderability	Per EIAJ-STD-002					
Package Type	5.0 x 7.0 x 2.0 mm, 4-pad Ceramic Leadless Chip Carrier					

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#### Dimensions, Marking and Pin-Out Information:

Part Marking	
Line 1	TBD
Line 2	20M0000
Line 3	M yywwvv

Legend	
*	Pad 1 Indicator
yy	Year
ww	Work week
vv	Factory code

Pad	Function
1	N/C
2	Ground
3	Output
4	+V <sub>DD</sub>
5-8	Do Not Connect

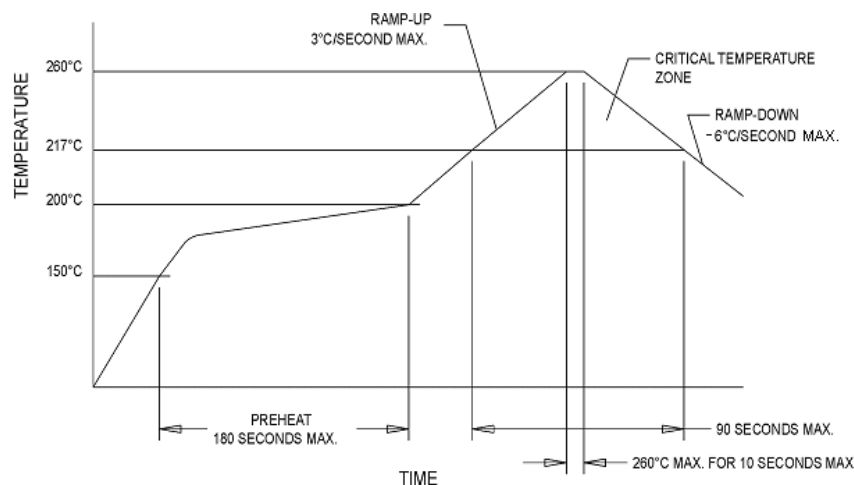
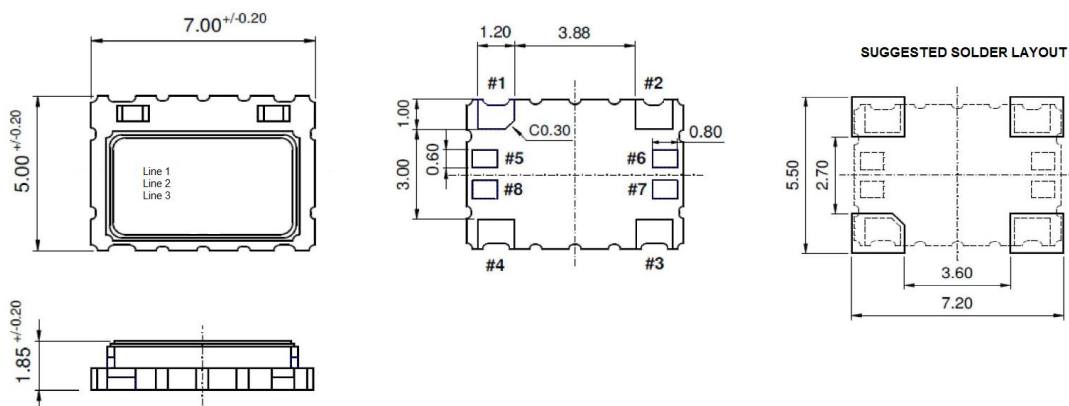


Figure 1

#### Data Sheet Revision Table

Date	Rev.	Orig.	Details of Revision
07/29/16	0	MM	Original release.