SPECIFICATION FOR RoHS 6 COMPLIANT SMT TCXO
MtronPTI P/N: M6029S062

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F_O		16.000000		MHz	
Frequency Tolerance	$\Delta F/F$	-2.0		+2.0	ppm	
Frequency Stability						
vs. Stability	$\Delta F/F$	-2.0		+2.0	ppm	Over operating temperature range
vs. Reflow Soldering	$\Delta F/F$	-1.0		+1.0	ppm	One pass, +260 °C peak for 10 s maximum
vs. Aging	$\Delta F/F$	-1.0		+1.0	ppm	First year
Frequency vs. Supply	$\Delta F/F$			±0.3	ppm	For 5% supply variation
Frequency vs. Load	$\Delta F/F$			±0.3	ppm	For 10% load variation
RF Output						
Output Type			HCMOS			
Output Load			15 pF HCMOS load			
Output Logic "0" Level	V_{OL}			10% Vdd	V	
Output Logic "1" Level	V_{OH}	90% Vdd			V	
Symmetry		45		55	%	Measured at 50% Vdd
Rise/Fall Time				6	ns	10% Vdd to 90% Vdd
Supply Voltage & Power Consumption						
Operating Voltage	V_{DD}	3.135	3.3	3.465	V	
Operating Current	I_{DD}			10	mA	
Other Specifications						
Start-Up Time			2	10	ms	

Environmental Conditions:

|						
Operating Temperature	T_A	-30		+75	°C	
Storage Temperature	T_S	-40		+85	°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 10-2000Hz)					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10^{-8} atm cc/s of Helium) (Crystal Only)					
Solderability	Per EIAJ-STD-002					
Package Type	5.0 x 7.0 x 1.85 mm, 4-pad Ceramic Leadless Chip Carrier					

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Dimensions, Marking and Pin-Out Information:

Part Marking	
Line 1	M6029S062
Line 2	16M0000
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_{DD}
5-8	Do Not Connect
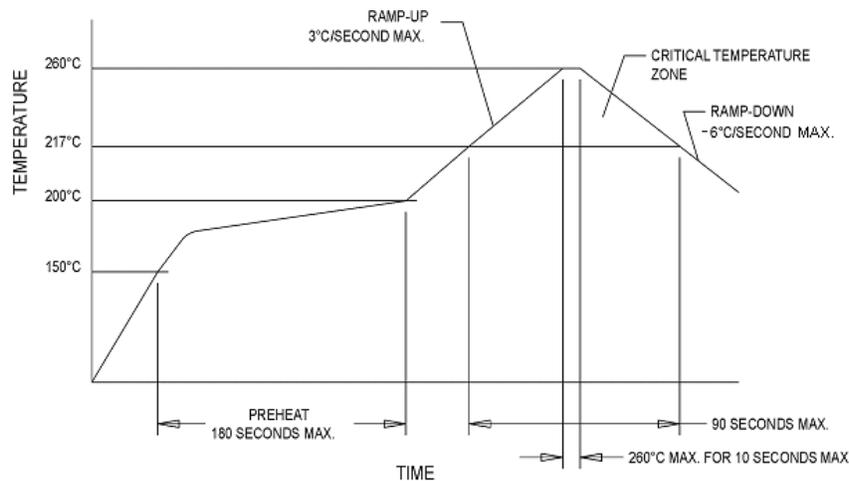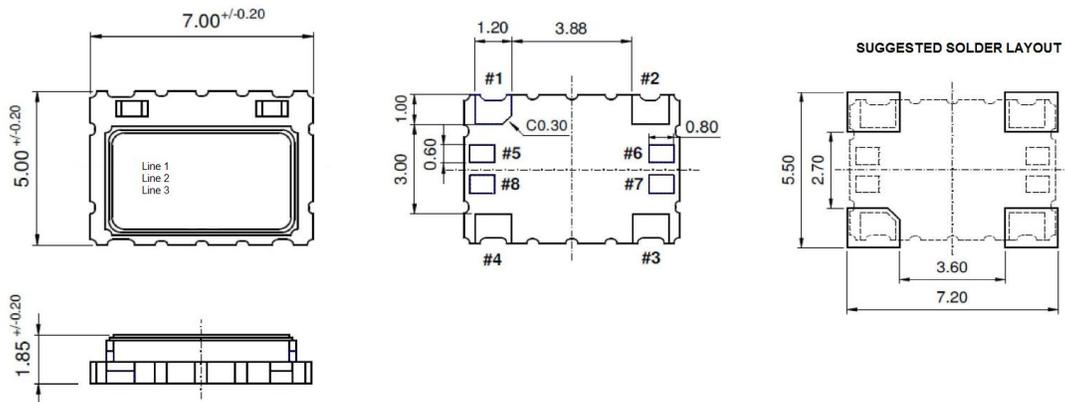
Figure 1

Data Sheet Revision Table

Date	Rev.	Orig.	Details of Revision
04/11/17	0	DCO	Original release.