

SPECIFICATION FOR RoHS 6 COMPLIANT SMT HCMOS TCXO

MtronPTI P/N: M6029S060

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F ₀		25.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	After 2 reflows, @ +25C
Frequency Stability						
vs. Stability	ΔF/F	-2.0		+2.0	ppm	Over operating temperature range
vs. Aging		-5.0		+5.0	ppm	5 years @ 25°C
Frequency vs. Supply				±0.3	ppm	For 5% supply variation
Frequency vs. Load				±0.2	ppm	For 5% load variation
RF Output						
Output Type		HCMOS Compatible				
Output Load				15	pF	
Output Logic "0" Level				10% V _{DD}	V	
Output Logic "1" Level		90% V _{DD}			V	
Rise/Fall Time				6	ns	Ref. 10% to 90%
Symmetry		45		55	%	
Supply Voltage & Power Consumption						
Operating Voltage	V _{DD}	2.97	3.3	3.63	V	
Operating Current	I _{DD}			3.5	mA	

Environmental Conditions:

Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-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 ⁻⁸ atm cc/s of Helium) (Crystal Only)					
Solderability	Per EIAJ-STD-002					
Package Type	5.0 x 7.0 x 1.85mm, 4-pad Ceramic Leadless Chip Carrier					

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Dimensions, Marking and Pin-Out Information:

Part Marking	
Line 1	M6029S060
Line 2	25M0000
Line 3	M yywwvv

Legend	
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

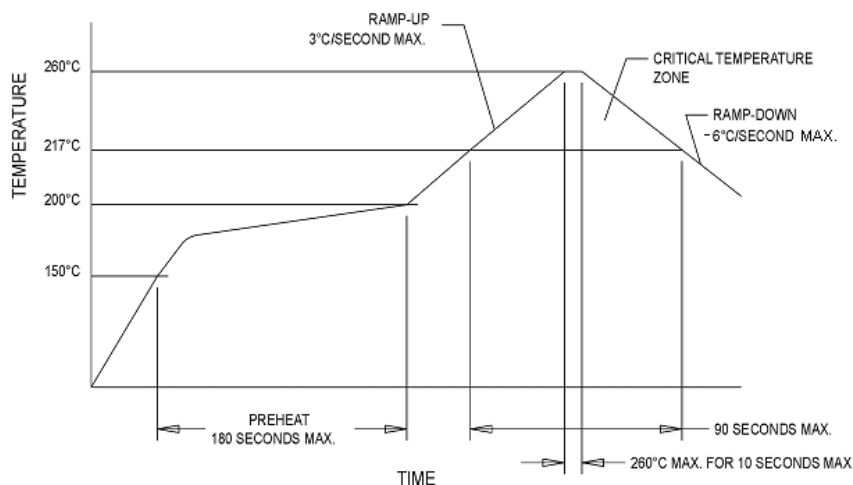
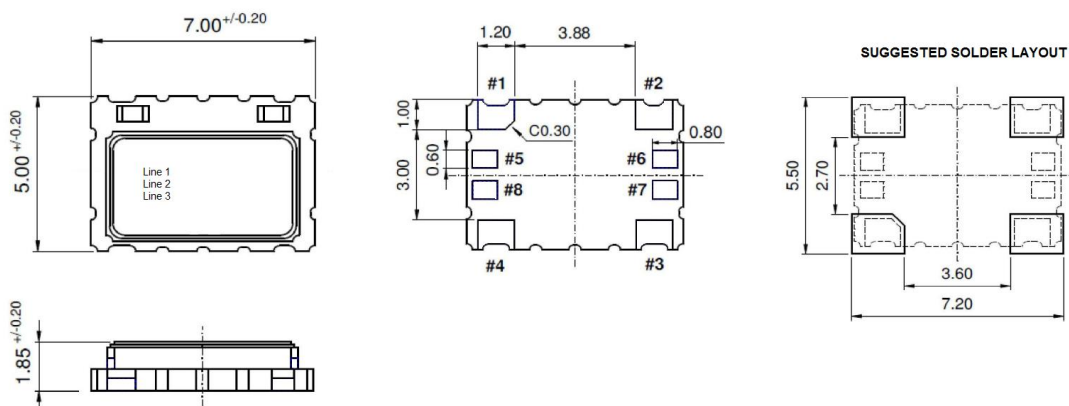


Figure 1

Data Sheet Revision Table

Date	Rev.	Orig.	Details of Revision
03/20/16	0	MM	Original release.