

SPECIFICATION FOR RoHS 6 COMPLIANT SMD CRYSTAL
MtronPTI P/N: M1253S116

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F _o		16.000000		MHz	
Frequency Tolerance	F/F	-10		+10	ppm	@ 25°C
Frequency Stability	ΔF/F	-10		+10	ppm	-20°C to + 70°C
		-15		+15	ppm	-30°C to + 85°C
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+125	°C	
Aging		-5		+5	ppm	1 st year @ 25°C
Load Capacitance	C _L		10		pF	
Shunt Capacitance	C _o			3	pF	
ESR				120	Ω	
Drive Level	D _L		10	100	μW	

Environmental Conditions:

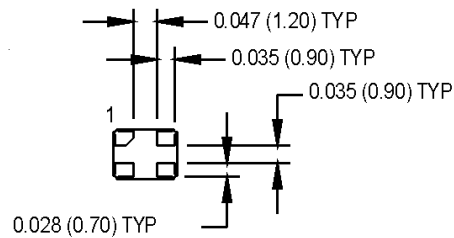
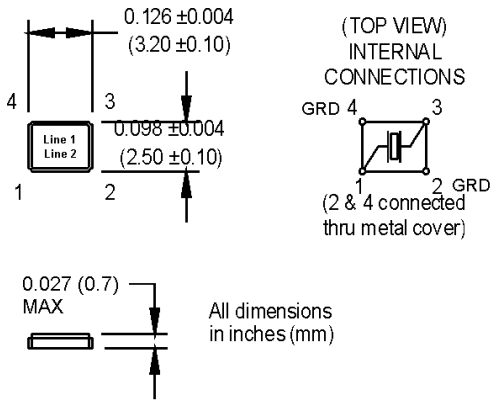
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1

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Mechanical, Marking and Layout Information:

Part Marking	
Line 1	1600
Line 2	M Y V

Legend	
M	MtronPTI
Y	Year
V	Vendor code



SUGGESTED SOLDER PAD LAYOUT

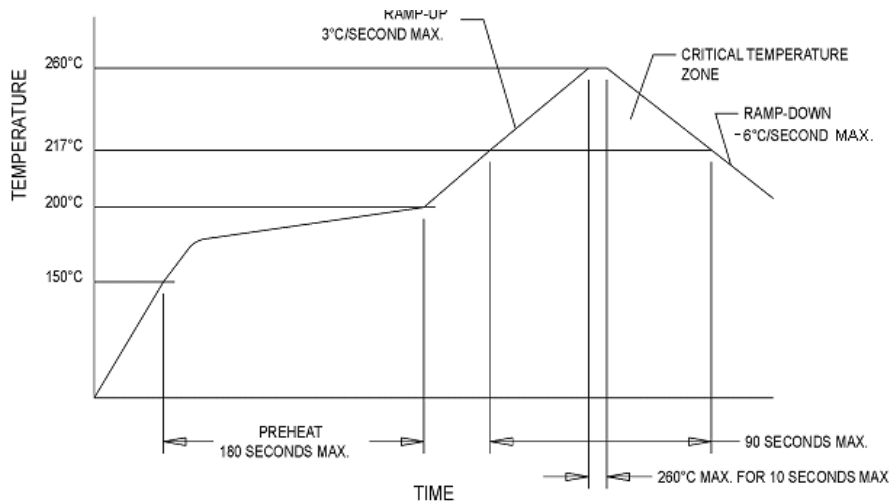
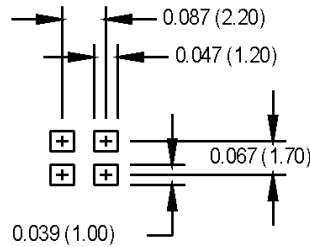


Figure 1

Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
11/3/11	0	MM	Original release.