

SPECIFICATION FOR RoHS 6 COMPLIANT SMT CRYSTAL MtronPTI P/N: M1325S143

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F ₀		12.000000		MHz	
Frequency Tolerance	F/F	-20		+20	ppm	@ 25°C
Frequency Stability	ΔF/F	-30		+30	ppm	Over operating temperature range
Operating Temperature	T _A	-40		+85	°C	
Aging		-5		+5	ppm	Per year @ 25°C
Load Capacitance	C _L		18		pF	
Shunt Capacitance	C ₀			7	pF	
ESR				80	Ω	
Drive Level	D _L	10	50	100	μW	
Insulation Resistance	I _R	500			M Ω	DC100V

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)
Storage Temperature	-55°C to +125°C
Solderability	Per EIAJ-STD-002
Package	2-pad 3.2 X 5.0 X 1.2 mm leadless ceramic. RoHS compliant.
Max. Soldering Conditions	See Figure 1

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Mechanical and Marking Information:

Part Marking	
Line 1	FFFF
Line 2	MTVXY

Legend	
F	Frequency
MT	MtronPTI
V	Vendor code
X	Month
Y	Year

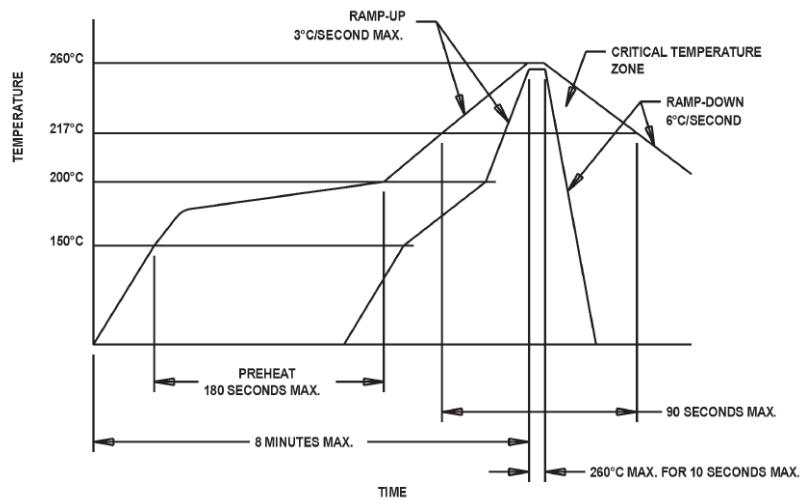
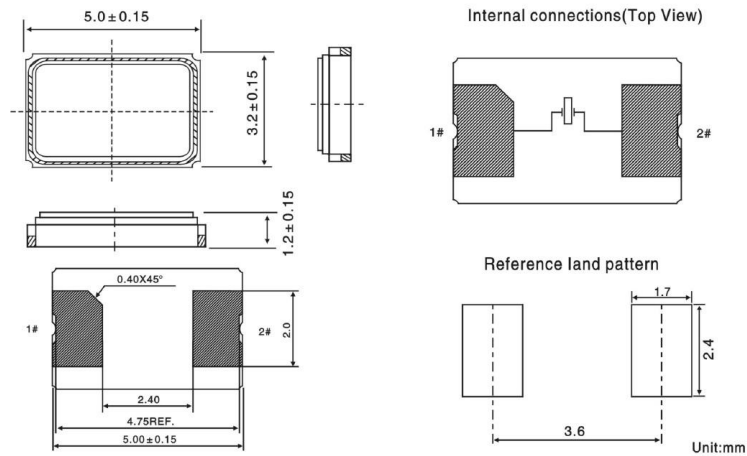


figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
5/23/13	0	TOY	Original release.