



## SPECIFICATION FOR SMT CRYSTAL MtronPTI P/N M1007S143

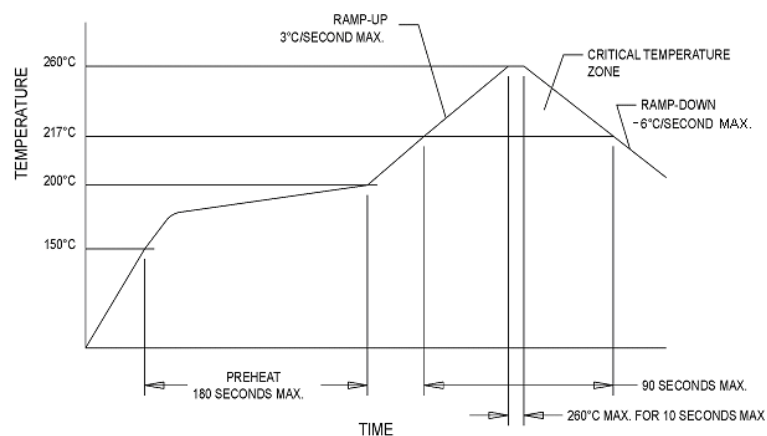
### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F <sub>0</sub>		25.000000		MHz	
Frequency Tolerance	F/F	-10		+10	ppm	@ +25°C
Frequency Stability	ΔF/F	-20		+20	ppm	Over Operating Temperature
Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Storage Temperature	T <sub>S</sub>	-55		+125	°C	
Aging		-5		+5	ppm	10 years
Load Capacitance	C <sub>L</sub>		10		pF	
Shunt Capacitance	C <sub>0</sub>	2.0	3.0	4.0	pF	
Motional Capacitance	C <sub>1</sub>	9.0		13.5		
C <sub>0</sub> / C <sub>1</sub> Ratio				300		
ESR				25	Ω	Over Operating Temperature
Drive Level	D <sub>L</sub>	10	50	100	μW	

### Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C
Vibration	Per MIL-STD-202, Method 201 & 204
Thermal Shock	Per MIL-STD-883 Method 1010 Condition B
Hermeticity	1 X 10 <sup>-8</sup> atm cc/sec minimum
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	5.0 X 7.0 X 1.3 mm 4-pad leadless ceramic. RoHS compliant.

**Figure 1**





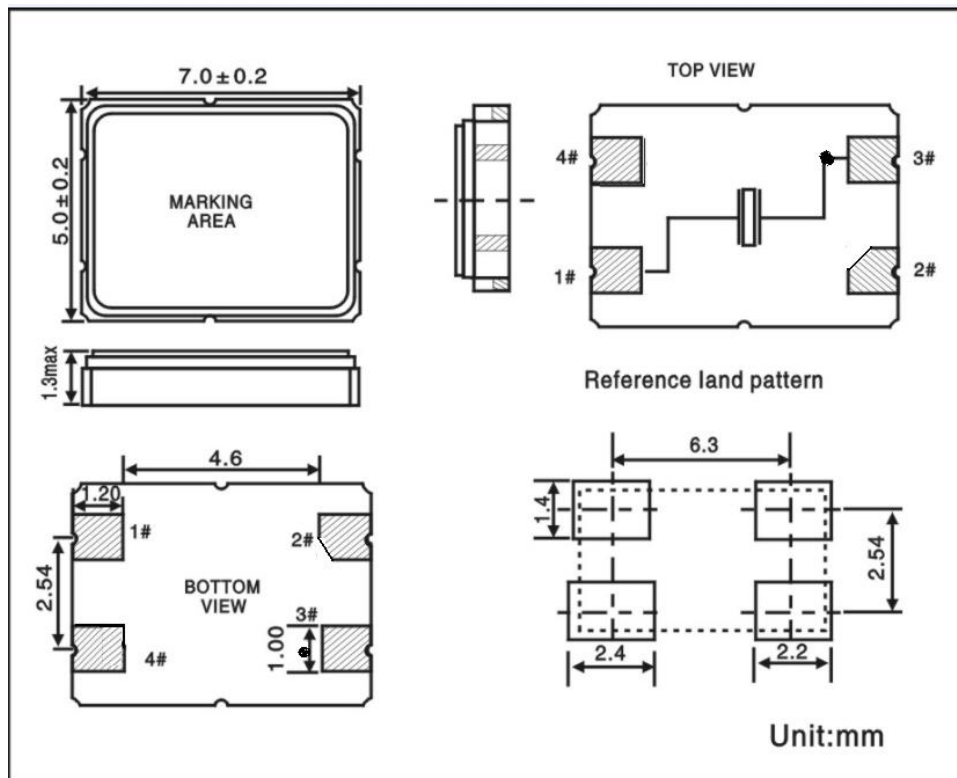
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### Dimensions, Marking, and Pin Out Information :

Pad	Function
1	Crystal
2	Ground
3	Crystal
4	Ground

Part Marking	
Line 1	MFFFFVXY
Line 2	M1007S143

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



#### DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
10/22/11	0	MM	Original release.
10/24/11	A	MM	Added customer part number.
12/22/11	B	MM	Added Pinout information.