

SPECIFICATION FOR SMT CRYSTAL MtronPTI P/N M1003S093

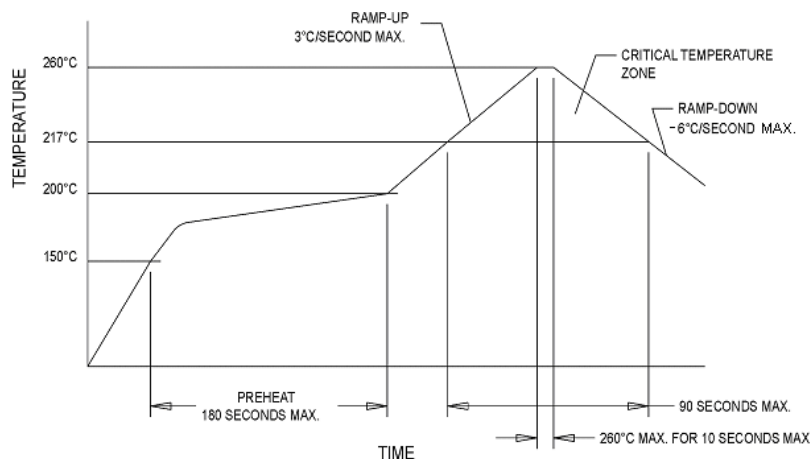
Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F ₀		30.720000		MHz	
Frequency Tolerance	F/F	-25		+25	ppm	@ +25°C
Frequency Stability	ΔF/F	-50		+50	ppm	
Operating Temperature	T _A	-20		+70	°C	
Aging		-2		+2	ppm	Per year
Load Capacitance	C _L		18		pF	
Shunt Capacitance	C ₀			5	pF	
ESR				30	Ω	
Drive Level	D _L	10	50	100	μW	

Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C.
Vibration	Per MIL-STD-202, Methods 201 & 204
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B
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
Max. Soldering Conditions	See Figure 1
Package Type	3.5 X 6.0 X 1.2 mm 4-pad leadless ceramic. RoHS compliant.

Figure 1

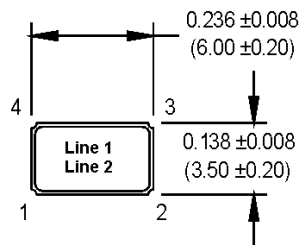


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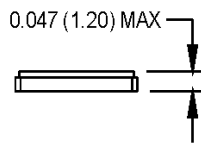
Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	XXXX (Frequency)
Line 2	MTVXY

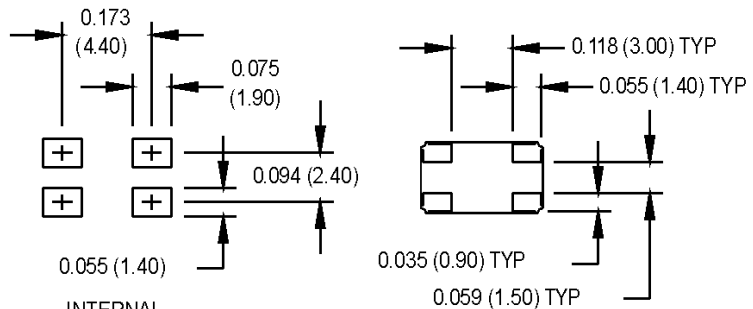
Legend	
MT	MtronPTI
V	Factory Code
X	Month
Y	Year



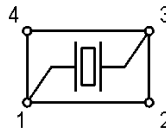
All dimensions
in inches (mm)



SUGGESTED SOLDER PAD LAYOUT



INTERNAL CONNECTIONS



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
4/28/11	0	WNJ	Original release.