

## SPECIFICATION FOR RoHS 6 COMPLIANT SMT CRYSTAL MtronPTI P/N: M1325S178

### 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 temp range
Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Aging		-5		+5	ppm	Per year @ +25°C
Load Capacitance	C <sub>L</sub>		15		pF	
Shunt Capacitance	C <sub>0</sub>			7	pF	
ESR				30	Ω	
Drive Level	D <sub>L</sub>	10	50	100	μW	
Insulation Resistance	I <sub>R</sub>	500			M Ω	100 VDC

### Environmental Conditions:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sine wave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10 Hz to 2000 Hz)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of Helium)
Storage Temperature	-55°C to +125°C
Solderability	Per EIAJ-STD-002
Package	4-pad 3.2 X 5.0 X 0.8mm leadless ceramic. RoHS compliant. M1325 type
Max. Soldering Conditions	See Figure 1

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#### Mechanical and Marking Information:

Part Marking	
Line 1	25M000
Line 2	M R y ww v

Legend	
M	MtronPTI
R	M1325 Family
y	last digits of year
ww	week of manufacture
v	factory code

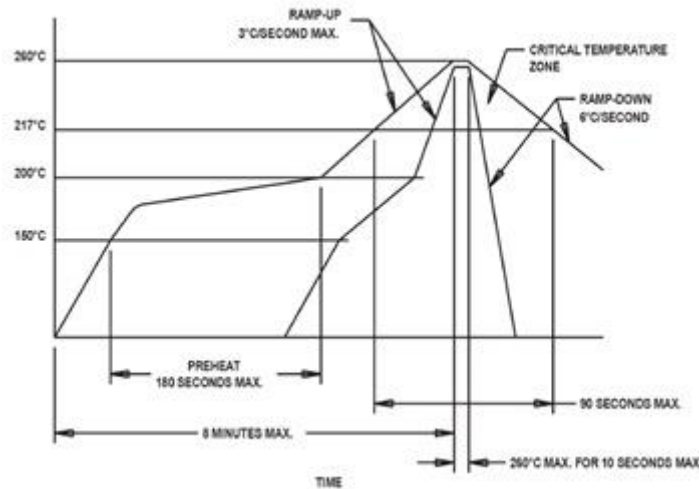
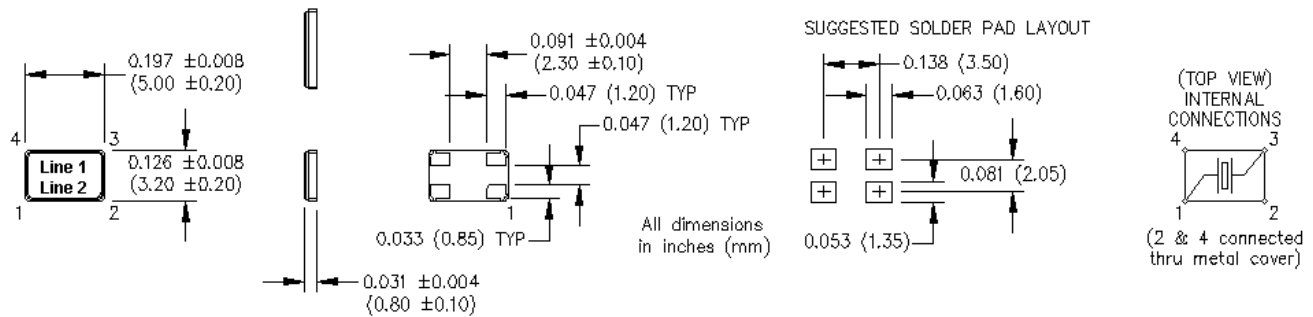


Figure 1

#### DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
07-24-19	A	BRR	Original release