

## SPECIFICATION FOR RoHS 6 COMPLIANT SMT CRYSTAL MtronPTI Part Number M1253S204

### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F <sub>o</sub>		25.000000		MHz	
Frequency Tolerance	F/F	-50		+50	ppm	@ +25°C
Frequency Stability	ΔF/F	-100		+100	ppm	Deviation over operating temperature range
Aging	ΔF/F	-5		+5	Ppm/yr.	@ +25°C
Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Storage Temperature	T <sub>S</sub>	-55		+125	°C	
Load Capacitance	C <sub>L</sub>		10		pF	
Shunt Capacitance	C <sub>o</sub>			3	pF	
ESR				70	Ω	
Drive Level	D <sub>L</sub>	10	100	300	μW	
Insulation Resistance		500			MΩ	@ 100 V <sub>DC</sub>

### 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)
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of Helium)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Termination finish	0.3 to 1.0 micrometers of gold

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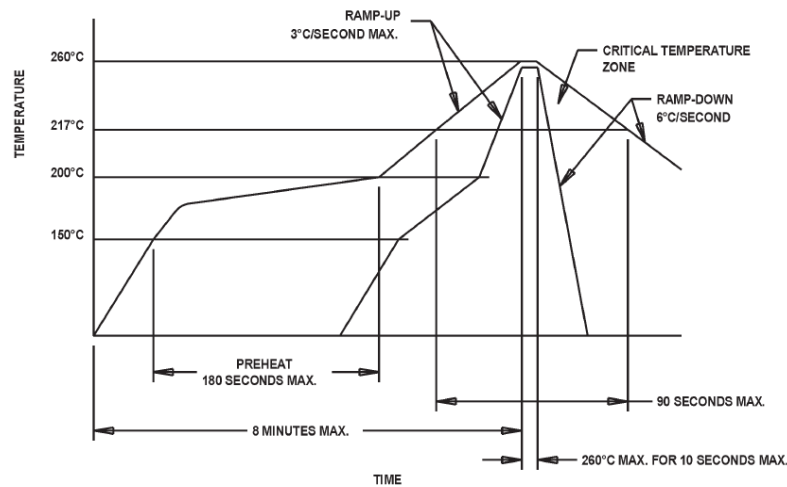
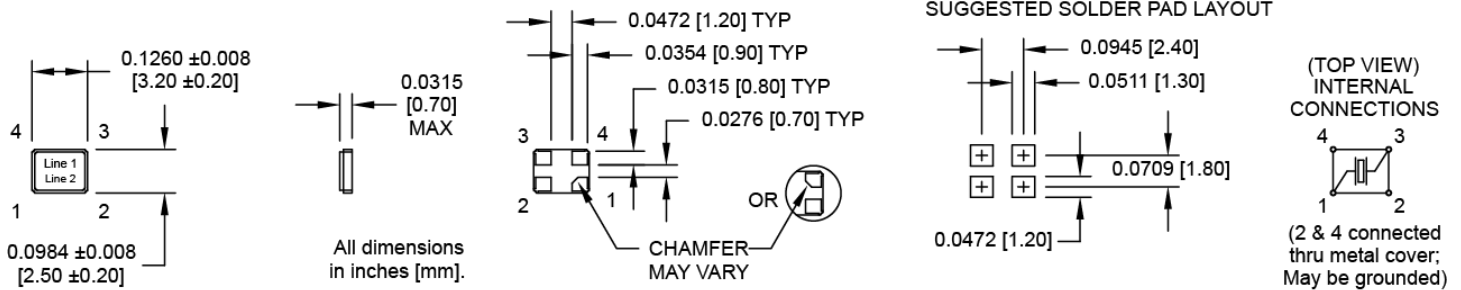
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#### Dimensions, Marking, and Pin Out Information:

Pad	Function
1	Input / Output
2	Cover / Ground
3	Input / Output
4	Cover / Ground

Part Marking	
Line 1	25M0000
Line 2	M B y ww v

Line 2 Legend	
M	MtronPTI
B	Part Series
y	Year
ww	Work Week No.
v	Factory code



#### DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
11/30/17	0	MM	Original release.