

SPECIFICATION FOR SMT CRYSTAL MtronPTI P/N M1252S039

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F _o		16.000000		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	-10		+60	°C	
Storage Temperature	T _S	-55		+125	°C	
Load Capacitance	C _L		10		pF	
Shunt Capacitance	C _o			7	pF	
ESR				100	Ω	
Drive Level	D _L	5	50	100	μW	
Insulation Resistance		500			MΩ	

Environmental & Mechanical Requirements:

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 ⁻⁸ atm cc/s of Helium)
Gross Leak	Per MIL-STD-202, Method 112 (30 sec. Immersion)
Fine Leak	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	2.0X 2.5 X 0.60 mm 4-pad leadless ceramic. RoHS compliant.

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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	16M000
Line 2	M Y WW V

Legend	
M	MtronPTI
Y	Year
WW	Week
V	Factory Code

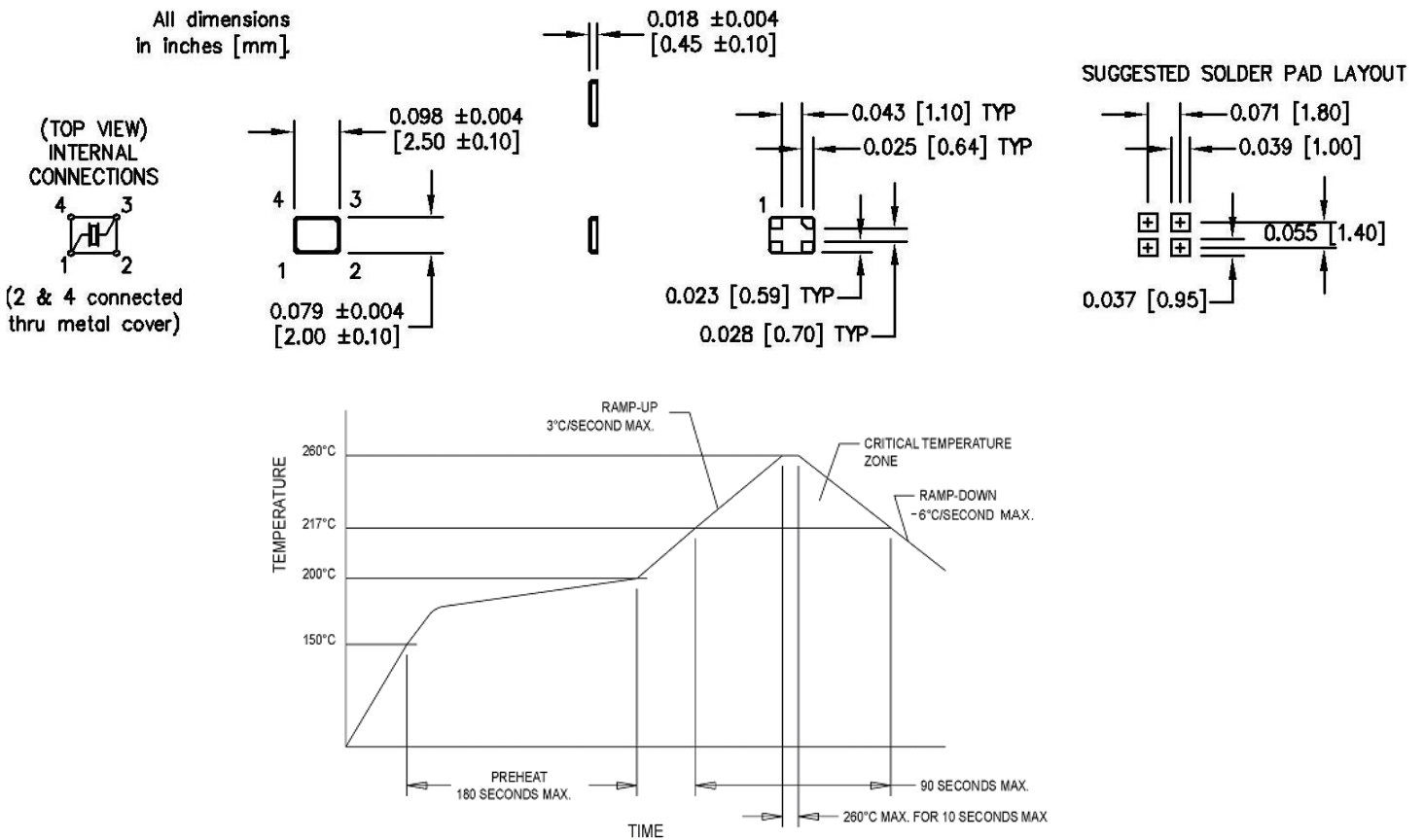


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
11/25/13	0	MM	Original release.
12/10/13	A	MM	Updated ESR specification.