

SPECIFICATION FOR RoHS 6 COMPLIANT SMT CRYSTAL MtronPTI P/N M1253S072

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F _o		25.000000		MHz	
Frequency Tolerance	F/F	-30		+30	ppm	@ 25°C, 18 pF Load
Frequency Stability	ΔF/F	-20		+20	ppm	Over operating temperature range, referenced to frequency @ 25°C
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+125	°C	
Aging		-3		+3		Per year
Load Capacitance	C _L		18		pF	
Shunt Capacitance	C _o			3	pF	
ESR				50	Ω	
Drive Level	D _L	10	50	100	μW	

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 ⁻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)
Resistance to Solvents	Per MIL-STD-883, Method 2015
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
RoHS Status	RoHS 6/6 Compliant

SPECIFICATION FOR RoHS 6 COMPLIANT SMT CRYSTAL MtronPTI P/N M1253S072

Dimensions, Marking, and Pin Out Information:

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

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

Line 2 Legend	
M	MtronPTI
B	Code for M1253
y	Year
ww	Work Week No.
v	Factory code

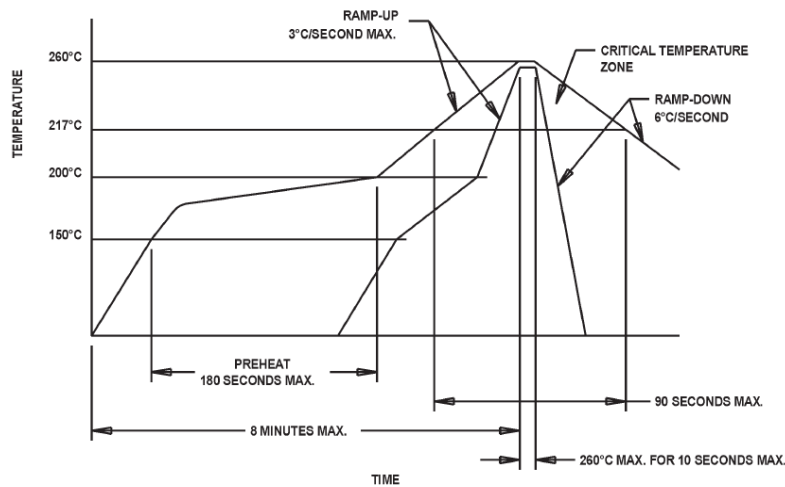
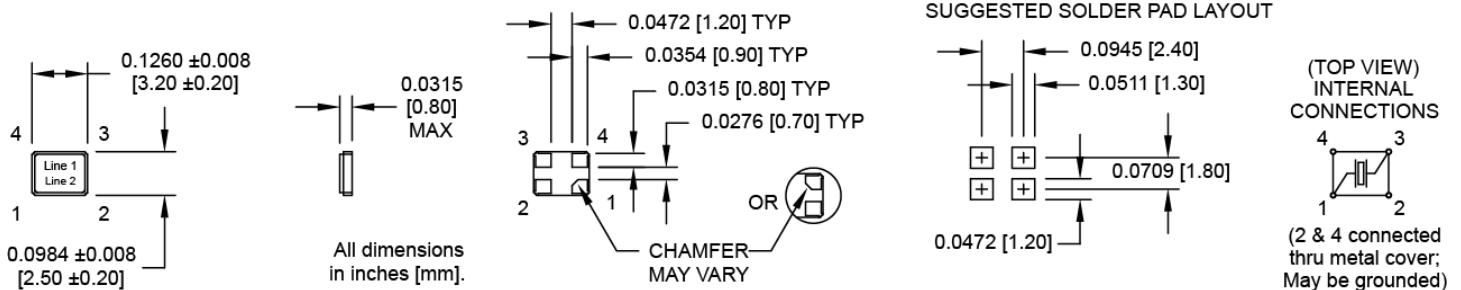


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
01/28/09	0	WNJ	Original release.
04/16/15	A	DCO	Updated deviation v. temperature spec to ±20 ppm, updated to new format, updated package outline drawing and marking, added Calix part number.