

1703 E. Highway 50 Yankton, SD 57078 USA Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709

Website: www.mtronpti.com



SPECIFICATION FOR RoHS 6 COMPLIANT SMD CRYSTAL MtronPTI P/N: M1253S162

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Mode of Oscillation		Fur	Fundamental (AT-Cut)			
Frequency	Fo		24.000000		MHz	
Frequency Tolerance	F/F	-15		+15	ppm	@ 25°C
Frequency Stability	ΔF/F	-15		+15	ppm	Reference to the Frequency at 25°C
Operating Temperature	T _A	-30		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Aging	FA	-5		+5	ppm/yr	@ 25°C
Load Capacitance	C∟		20		pF	
Shunt Capacitance	C_0			3	pF	
ESR				70	Ω	
Drive Level	DL	10	100	300	μW	
Insulation Resistance	I_R	500			МΩ	DC100V

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



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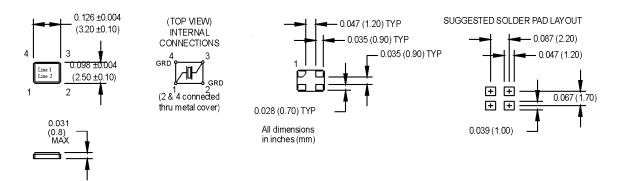


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Mechanical, Marking and Layout Information:

Part Marking			
Line 1	24M000		
Line 2	M Y WW V		

Legend		
M	M MtronPTI	
F	F Frequency	
Υ	Year	
WW	Week	
V	Vendor	



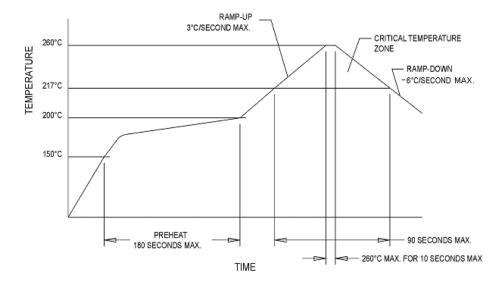


Figure 1

Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
05/23/13	0	TOY	Original release.	