

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 SMT CRYSTAL MtronPTI Part Number M1253S218

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	Fo		48.000000		MHz	Nominal Center Frequency
Frequency Tolerance	F/F	-30		+30	ppm	@ +25°C
Frequency Stability	ΔF/F	-30		+30	ppm	Over operating temp range
Aging		-5		+5	ppm/yr	@ +25°C
Load Capacitance	C∟		12.5		pF	
Shunt Capacitance	Co			3	pF	
ESR				35	Ω	
Drive Level	DL	10	100	300	μW	
Insulation Resistance	I _R	500			Megohms	100 VDC

Environmental Conditions:

Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	Ts	T _S -55		+125	°C	
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)					
Vibration	Per MIL-ST	D-202, Meth	od 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)					
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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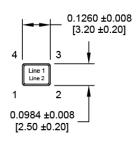
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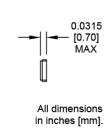
Dimensions, Marking, and Pin Out Information:

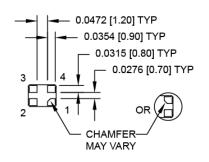
Pad	Function
1	Input / Output
2	Cover / Ground
3	Input / Output
4	Cover / Ground

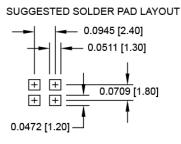
Part Marking		
Line 1	48M0000	
Line 2	MBywwv	

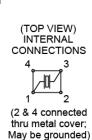
Line 2 Legend			
M	MtronPTI		
В	Part Series		
У	Year		
ww	Work Week No.		
V	Factory code		

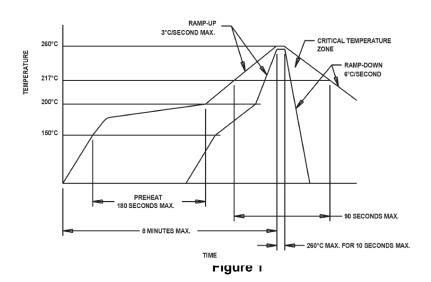












DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision	
07-24-19	Α	BRR	Preliminary Release	