



SPECIFICATION FOR RoHS 6 COMPLIANT SMT CRYSTAL MtronPTI Part Number M1325S179

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F_0		9.830400		MHz	Nominal Center Frequency
Frequency Tolerance	$\Delta F/F$	-50		+50	ppm	At +25 °C
Frequency Stability	$\Delta F/F$	-50		+50	ppm	Over operating temp range -40 to +85°C
Aging	$\Delta F/F$	-5		+5	ppm	First year
Operating Temperature	T_A	-40		+85	°C	
Load Capacitance	C_L		20		pF	
Shunt Capacitance	C_0		1.4		pF	
	C_1		3.3		fF	
Effective Series Resistance	ESR		30	60	Ω	
Drive Level	D_L		10	100	μW	
Drive Level Dependency	DLD2			10	Ω	Drive level sweep: 5 points minimum, 10 nW – 1 μW ; and 5 points minimum, 1 μW – 100 μW .
	RLD2			60	Ω	
	FDDL	-15		+15	ppm	

Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, 1/2 sine wave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10 Hz to 2000 Hz)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)
Storage Temperature	-55°C to +125°C
Solderability	Per EIAJ-STD-002
Package	4-pad 3.2 X 5.0 X 0.8mm leadless ceramic. RoHS compliant. M1325 type
Max. Soldering Conditions	See Figure 1

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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	9M8304
Line 2	M R y ww v

Legend	
M	MtronPTI
R	M1325 Family
y	last digits of year
ww	week of manufacture
v	factory code

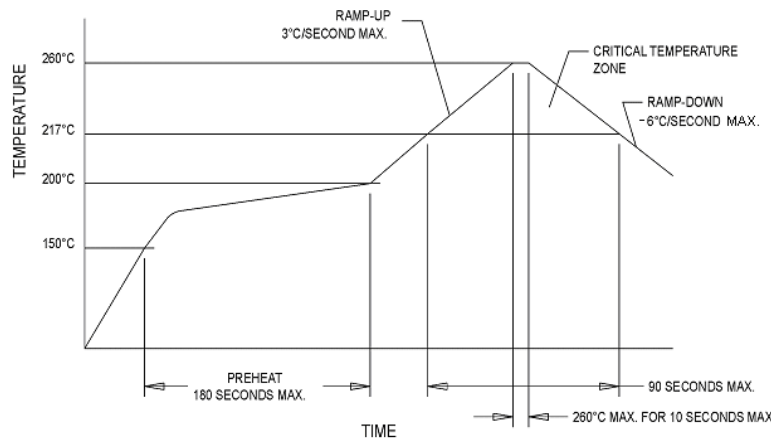
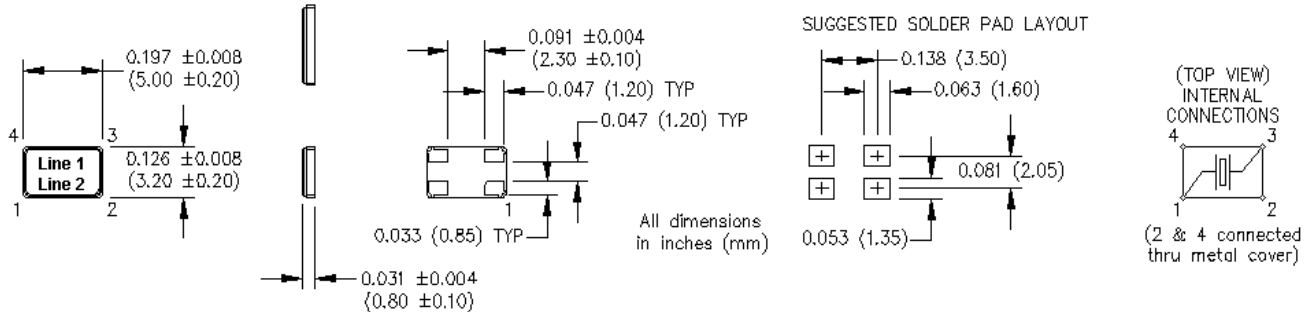


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
11-19-19	B	BRR	Corrected Typo in header.
11-07-19	A	BRR	Original Release.