



SPECIFICATION FOR HC-49U/S-SMD CRYSTAL MtronPTI P/N M1001S025-R

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F ₀		3.686400		MHz	
Frequency Tolerance	F/F	-30		+30	ppm	
Frequency Stability	ΔF/F	-50		+50	ppm	
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+125	°C	
Aging		-5		+5	ppm	Per year
Load Capacitance	C _L		18		pF	
Shunt Capacitance	C ₀			7	pF	
ESR				200	Ω	@ 50 μW drive level.
Drive Level	D _L	25	100	500	μW	
Insulation Resistance	I _R		500		M Ω	AT 100 VDC

Environmental & Mechanical Requirements:

Physical Dimensions	Per MIL-STD-883, Method 2016
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)
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
Package Type	HC-49U/S-SMD resistance weld. RoHS compliant.

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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	MFFFFVXY
Line 2	M1001S025-R

Legend	
M	MtronPTI
F	Frequency
V	Vendor code
X	Month
Y	Year

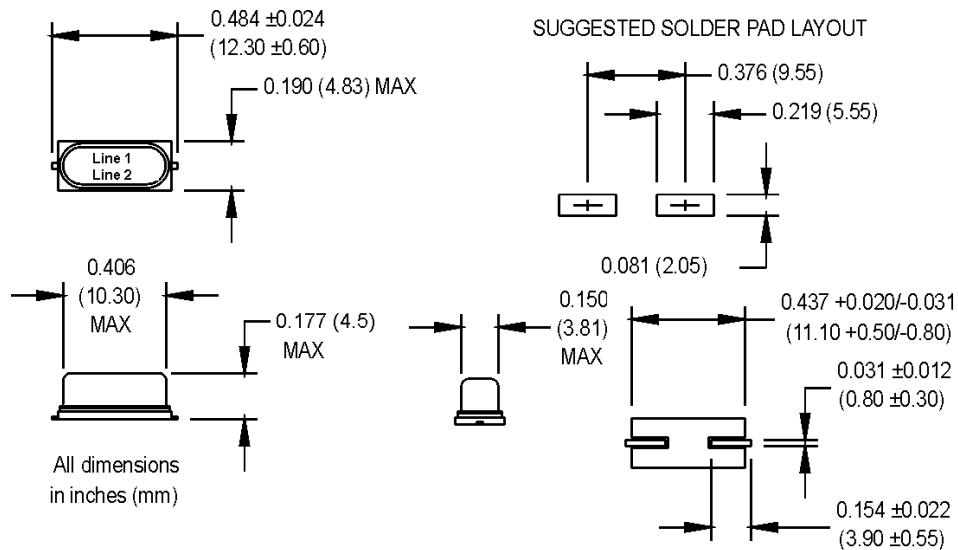
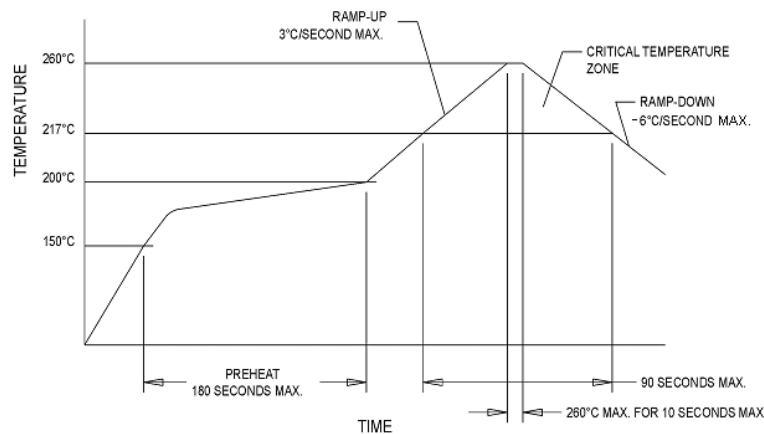


Figure 1



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
7/20/09	0	WNJ	Original release.