

SPECIFICATION FOR RoHS 6 COMPLIANT HC-49U/S-SMD CRYSTAL MtronPTI P/N M1001S559

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F _O		14.463660		MHz	Nominal Center Frequency
Frequency Tolerance	ΔF/F	-30		+30	ppm	@ +25 °C
Frequency Stability	ΔF _T /F	-30		+30	ppm	Over operating temp range
Operating Temperature	T _A	-40		+105	°C	
Storage Temperature	T _S	-55		+125	°C	
Aging @ +25 °C		-5		+5	ppm	Per year
Load Capacitance	C _L		10		pF	Parallel Resonant
Shunt Capacitance	C _O			7	pF	
ESR				50	Ω	@ +25 °C
Insulation Resistance		500			MΩ	@ 100 V _{DC} ±15 V
Spurious Mode Suppression		-3			dB	
Drive Level	D _L	25	100	1000	μW	

Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C
Vibration	Per MIL-STD-202, Methods 201 & 204
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B
Gross Leak	Per MIL-STD-202, Method 112 (30 second Immersion)
Fine Leak	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See Figure 1
Package Type	2-pad HC-49U/S-SMD, 4.2 mm max height, resistance weld, ATSM-49 type
RoHS	Full RoHS Compliance

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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	MFFFFVXY
Line 2	M1001S559

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

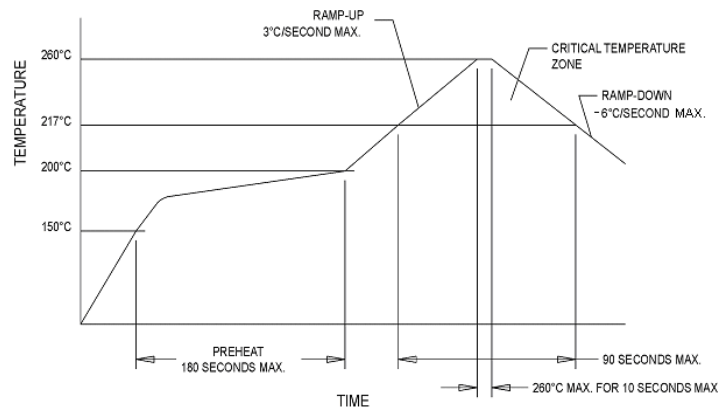
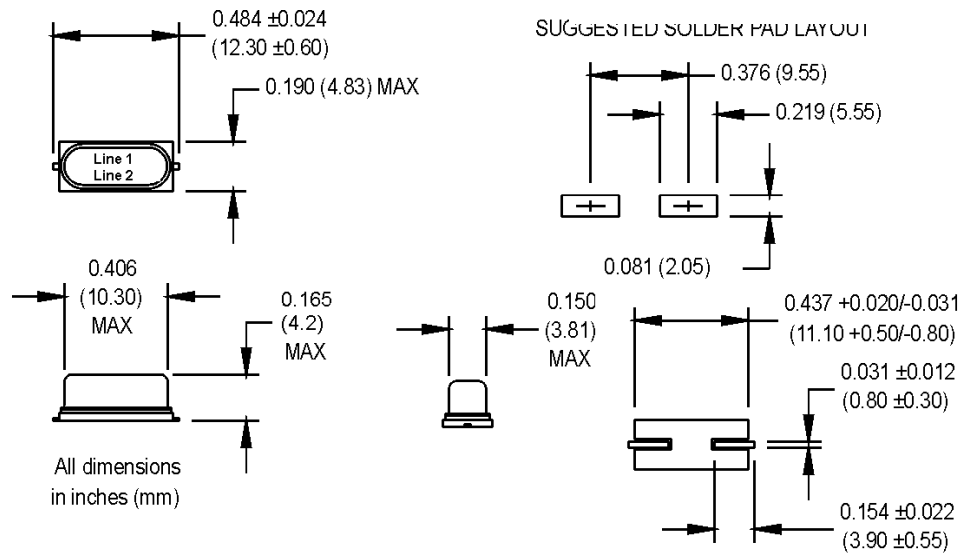


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
02/04/13	0	LEO	Original release.