

SPECIFICATION FOR RoHS 6 COMPLIANT HC-49U/S-SMD CRYSTAL MtronPTI P/N M1001S599

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental (AT-Cut)				
Frequency	F _o		24.576000		MHz	Nominal Center Frequency
Frequency Tolerance	F/F	-30		+30	ppm	@ +25°C
Frequency Stability	ΔF/F	-100		+100	ppm	Over operating temp range
Operating Temperature	T _A	-55		+125	°C	
Storage Temperature	T _s	-55		+125	°C	
Aging		-3		+3	ppm	1 st Year @ +25°C
Load Capacitance	C _L		8		pF	Parallel Resonant
Shunt Capacitance	C _o			7	pF	
ESR				40	Ω	@ +25°C
Drive Level	D _L	25	100	500	μW	
Insulation Resistance		500			MΩ	@ 100 V _{bc}

Environmental & Mechanical Requirements:

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	1 X 10 ⁻⁸ atm cc/sec minimum
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	2-pad HC-49U/S-SMD, 4.2mm 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	M1001S599

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

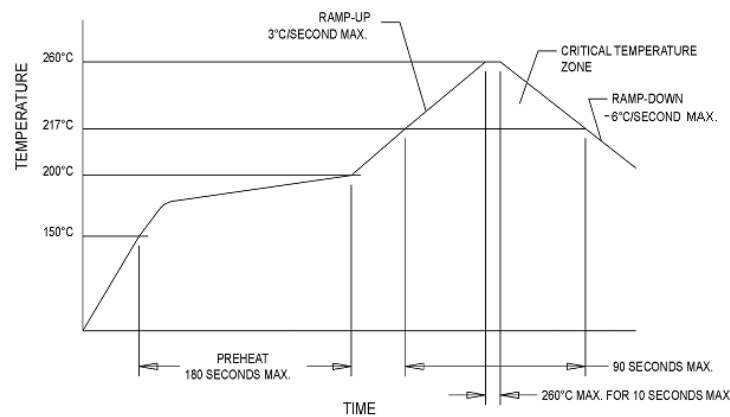
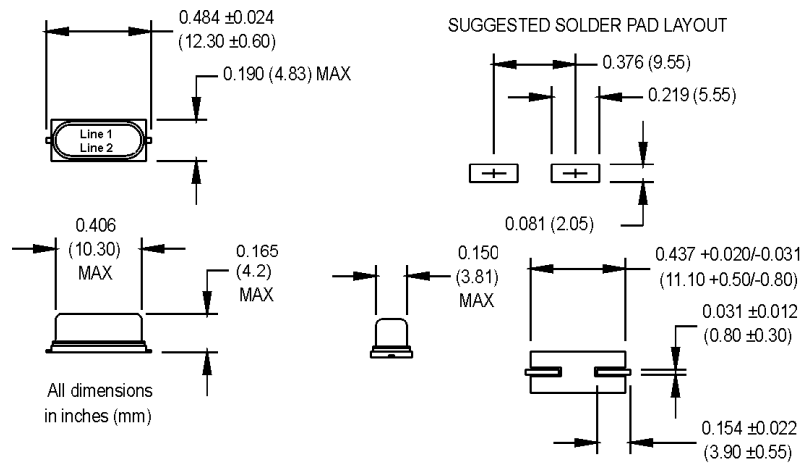


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
11/14/17	0	MM	Original release