

SPECIFICATION FOR HC-49U/S-SMD CRYSTAL

MtronPTI P/N 522-515-R

Effective Date: March 23, 2011

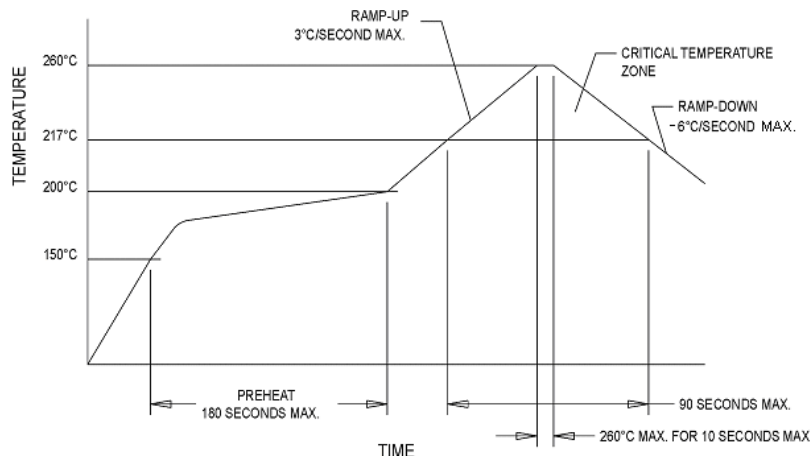
Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation		Fundamental AT-Cut				
Available Frequency Range	F_O	3.579545		40.000000	MHz	
Frequency Tolerance	F/F	-25		+25	ppm	@ +25°C
Frequency Stability	$\Delta F/F$	-25		+25	ppm	
Operating Temperature	T_A	-10		+70	°C	
Aging		-5		+5	ppm	Per year
Load Capacitance	C_L		18		pF	
Shunt Capacitance	C_O			7	pF	
ESR				200	Ω	3.579 to 3.999 MHz
				150	Ω	4.000 to 4.999 MHz
				120	Ω	5.000 to 5.999 MHz
				100	Ω	6.000 to 9.999 MHz
				80	Ω	10.000 to 13.999 MHz
				50	Ω	14.000 to 40.000 MHz
Drive Level	D_L	50	100	500	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
Storage Temperature	-55°C to +125°C
Hermeticity	Per MIL-STD-202, Method 112 (1×10^{-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 resistance weld. RoHS compliant.

Figure 1



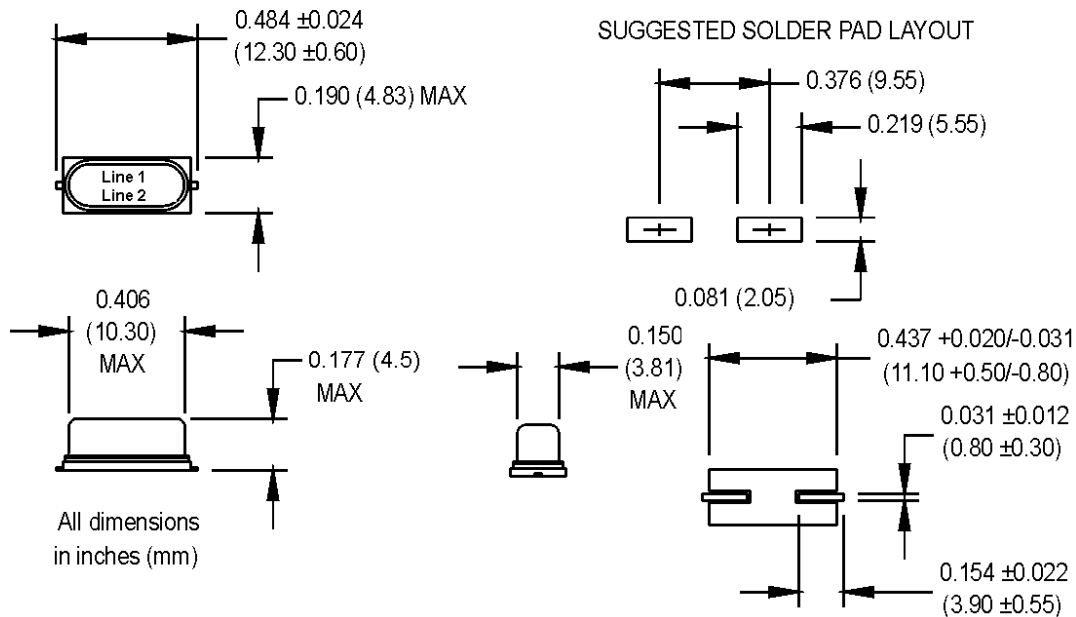


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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	MFFFFVXY
Line 2	522-515-R

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



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
3/23/11	0	WNJ	Original release.