A Series Crystal



- HC-49/U Thru-Hole Crystal
- RoHS Compliant Available

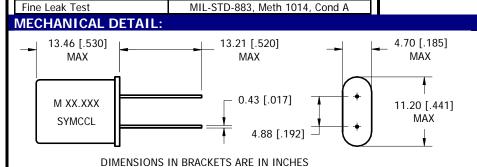
ESR CHART:

- Wide Frequency Range
- > AT Cut
- Resistance Weld



ELECTRICAL SPECIFICATIONS:			
Frequency Range	1.8432MHz to 200.000MHz		
Frequency Tolerance / Stability	(See Part Number Guide for Options)		
Operating Temperature Range	(See Part Number Guide for Options)		
Storage Temperature	-55°C to +125°C		
Aging	±5ppm / first year Max		
Shunt Capacitance	7pF Max		
Load Capacitance	20pF Standard (See Part Number Guide for Options)		
Equivalent Series Resistance	See ESR Chart		
Mode of Operation	Fundamental, 3 rd OT or 5 th OT		
Drive Level	2mW Max		
Shock	MIL-STD-883, Meth 2002, Cond B		
Solderability	MIL-STD-883, Meth 2003		
Solvent Resistance	MIL-STD-202, Meth 215		
Vibration	MIL-STD-883, Meth 2007, Cond A		
Gross Leak Test	MIL-STD-883, Meth 1014, Cond C		

Frequency Range	ESR (Ohms)	Mode / Cut
1.8432MHz to 1.999MHz	800 Max	Fund / AT
2.000MHz to 2.399MHz	550 Max	Fund / AT
2.400MHz to 2.999MHz	350 Max	Fund / AT
3.000MHz to 3.199MHz	250 Max	Fund / AT
3.200MHz to 3.499MHz	200 Max	Fund / AT
3.500MHz to 3.599MHz	150 Max	Fund / AT
3.600MHz to 3.999MHz	120 Max	Fund / AT
4.000MHz to 4.999MHz	100 Max	Fund / AT
5.000MHz to 5.999MHz	70 Max	Fund / AT
6.000MHz to 40.000MHz	40 Max	Fund / AT
24.000MHz to 75.000MHz	40 Max	3 rd OT / AT
75.001MHz to 200.000MHz	100 Max	5 th OT /AT



MARKING:

Line 1: MXX.XXX XX.XXX = Frequency in MHz

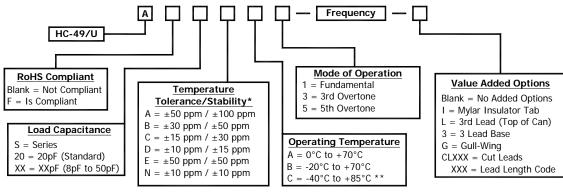
Line 2: SYMCCL

S = Internal Code

YM = Date Code (Year/Month) CC = Crystal Parameters Code

L = Denotes RoHS Compliant

PART NUMBER GUIDE:



- * Please consult with MMD sales department for any other parameters or options.
- ** Not all Frequency Tolerance/Stability options available at this temperature range

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