

B and E Series Crystal



- **HC-49/US Thru-Hole Crystal**
- **Wide Frequency Range**
- **RoHS Compliant Available**
- **Low Profile Package**
- **Resistance Weld**



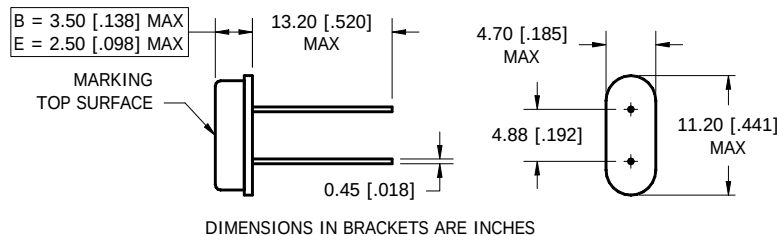
ELECTRICAL SPECIFICATIONS:

Frequency Range	3.200MHz to 91.730MHz
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, or 3 rd OT
Drive Level	1mW 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
Fine Leak Test	MIL-STD-883, Meth 1014, Cond A

ESR CHART:

Frequency Range	ESR (Ohms)	Mode / Cut
3.200MHz to 4.999MHz	200 Max	Fund / AT
5.000MHz to 5.999MHz	150 Max	Fund / AT
6.000MHz to 7.999MHz	120 Max	Fund / AT
8.000MHz to 8.999MHz	90 Max	Fund / AT
9.000MHz to 9.999MHz	80 Max	Fund / AT
10.000MHz to 16.999MHz	50 Max	Fund / AT
17.000MHz to 24.999MHz	40 Max	Fund / AT
25.000MHz to 36.000MHz	25 Max	Fund / AT
24.000MHz to 34.999MHz	100 Max	3 rd OT / AT
35.000MHz to 59.999MHz	80 Max	3 rd OT / AT
60.000MHz to 91.730MHz	60 Max	3 rd OT / AT

MECHANICALS DETAIL:

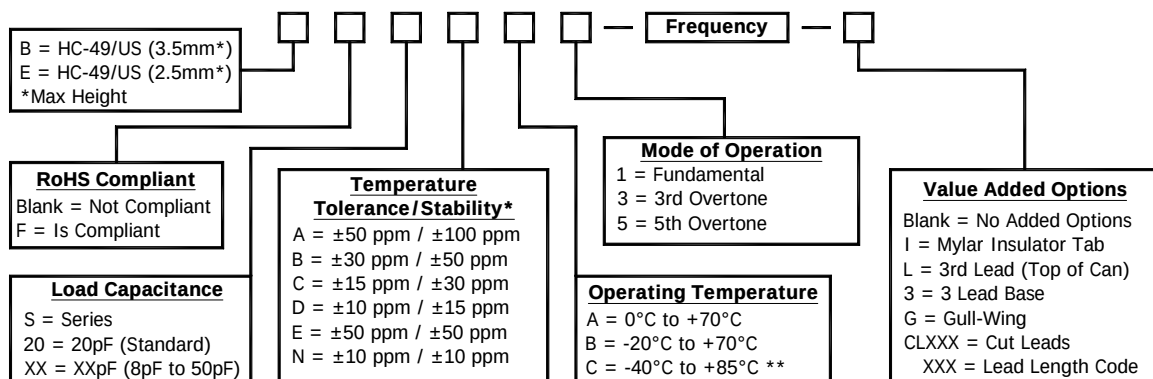


MARKING:

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

Line 2: SYMCLL
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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