D and F Series Crystal



- HC-49/US Surface Mounted Crystal
- > Wide Frequency Range
- > RoHS Compliant Available
- **➤** Fundamental or 3rd OT AT Cut



ELECTRICAL SPECIFICATIONS:

Frequency Range	3.200MHz to 80.000MHz	
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, 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:

ESR (Ohms)	Mode / Cut
150 Max	Fund / AT
120 Max	Fund / AT
100 Max	Fund / AT
90 Max	Fund / AT
70 Max	Fund / AT
50 Max	Fund / AT
50 Max	Fund / AT
40 Max	Fund / AT
30 Max	Fund / AT
100 Max	3 rd OT / AT
80 Max	3 rd OT / AT
	150 Max 120 Max 100 Max 90 Max 70 Max 50 Max 40 Max 30 Max 100 Max

Line 1: MXX.XXX

MARKING:

XX.XXX = Frequency in MHz

Line 2: SYMCCL

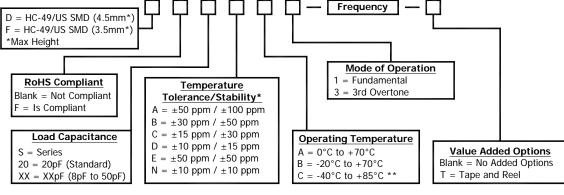
S = Internal Code

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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