## **D** and **F** Series Crystal



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

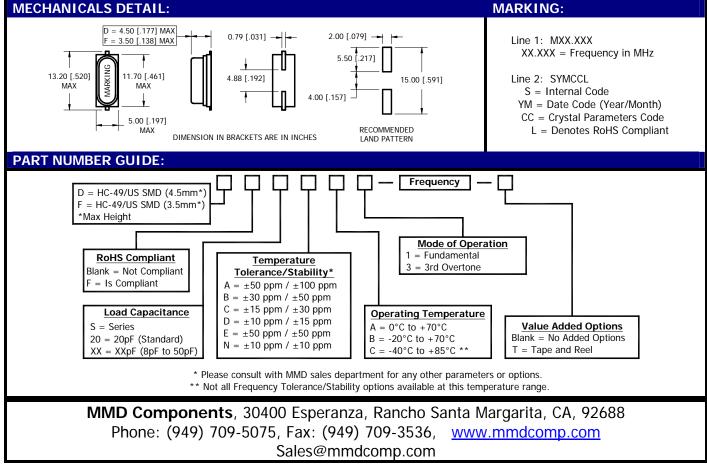
## ELECTRICAL SPECIFICATIONS:

**ESR CHART:** 

	-	
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 <sup>rd</sup> 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	

Frequency Range	ESR (Ohms)	Mode / Cut
3.200MHz to 3.999MHz	150 Max	Fund / AT
4.000MHz to 4.999MHz	120 Max	Fund / AT
5.000MHz to 5.999MHz	100 Max	Fund / AT
6.000MHz to 7.999MHz	90 Max	Fund / AT
8.000MHz to 9.999MHz	70 Max	Fund / AT
10.000MHz to 11.999MHz	50 Max	Fund / AT
12.000MHz to 14.999MHz	50 Max	Fund / AT
15.000MHz to 19.999MHz	40 Max	Fund / AT
20.000MHz to 33.000MHz	30 Max	Fund / AT
24.576MHz to 29.999MHz	100 Max	3 <sup>rd</sup> OT / AT
30.000MHz to 80.000MHz	80 Max	3 <sup>rd</sup> OT / AT

## **MECHANICALS DETAIL:**



Specifications subject to change without notice