A Series Crystal



- O HC-49/U Thru-Hole Crystal
- O RoHS Compliant Available
- O Wide Frequency Range
- O AT Cut
- O Resistance Weld



Frequency Range	1.8432MHz to 160.000MHz max	
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	

Environmental & Mechanical Detail

ShockMIL-STD-883, Method 2002 Cond BSolderabilityMIL-STD-883, Method 2003Solvent ResistanceMIL-STD-202, Method 215VibrationMIL-STD-883, Method 2007, Cond AGross Leak TestMIL-STD-883, Method 1014, Cond CFine Leak TestMIL-STD-883, Method 1014, Cond A2MSLLevel 1 per IPC/JEDEC J-STD 20

Marking Detail

Line 1: MXX.XXX		
XX.XXX = Frequency in MHz		
Line 2: S	YMCCL	
S = In	ternal Code	
YM = Da	ate Code (Year/Month)	
CC = Cr	ystal Parameters Code	
L = Denotes RoHS Compliant		



MMD Monitor/Quartztek 30400 Esperanza, Rancho Santa Margarita, CA, 92688 Phone: (949) 709-5075, Fax: (949) 709-3536, <u>www.mmdcomp.com</u> Sales@mmdcomp.com

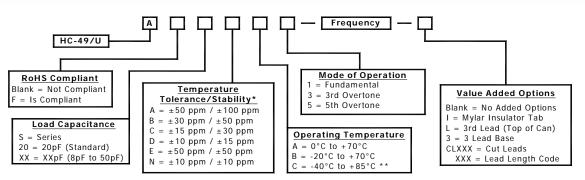


Revision:

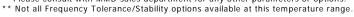
ESR Chart

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 160.000MHz max	100 Max	5 th OT /AT

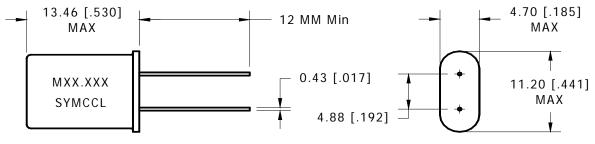
Part Number Guide



* Please consult with MMD sales department for any other parameters or options.



Mechanical Details



DIMENSIONS IN BRACKETS ARE IN INCHES



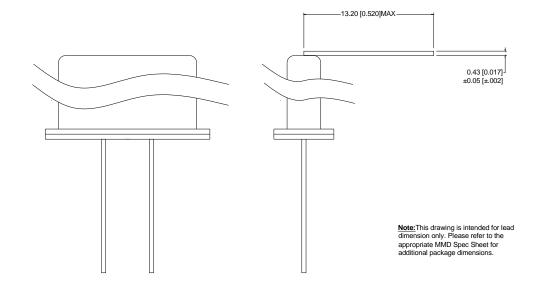
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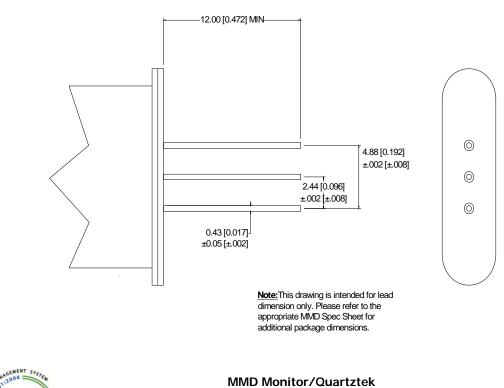
Revision:

08/14/13 J Pg 2 of 3

3rd Lead (Top of Can)



3 Lead Base





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Revision: