

U Series Crystal



- UM-1 Thru-Hole Crystal
- Wide Frequency Range
- AT Cut
- RoHS Compliant Available



Frequency Range	7.000MHz 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 (ESR)	See ESR Chart
Mode of Operation	Fundamental or 3 rd OT
Drive Level	1mW Max

Environmental & Mechanical Detail

Shock	MIL-STD-883, Method 2002 Cond B
Solderability	MIL-STD-883, Method 2003
Solvent Resistance	MIL-STD-202, Method 215
Vibration	MIL-STD-883, Method 2007, Cond A
Gross Leak Test	MIL-STD-883, Method 1014, Cond C
Fine Leak Test	MIL-STD-883, Method 1014, Cond A2
MSL	Level 1 per IPC/JEDEC J-STD 20

Marking Detail

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



MMD Monitor/Quartztek
 30400 Esperanza, Rancho Santa Margarita, CA, 92688
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 Sales@mmdcomp.com

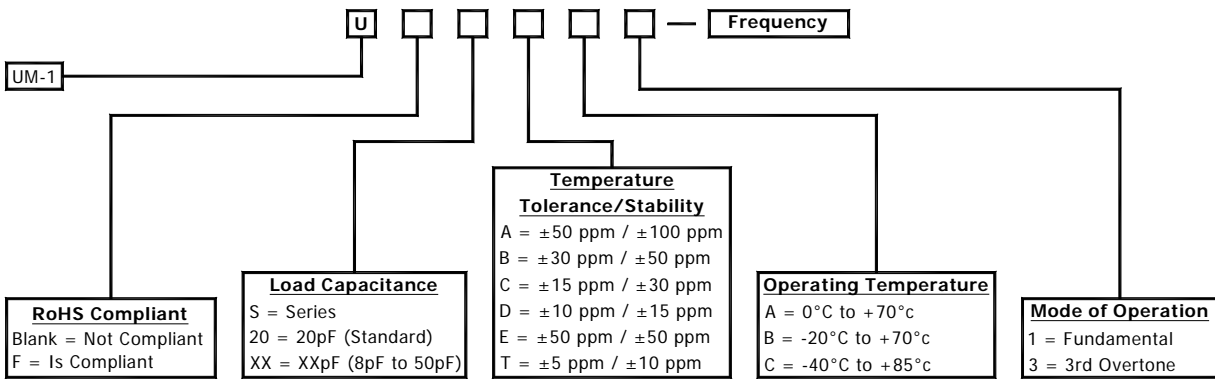


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ESR Chart

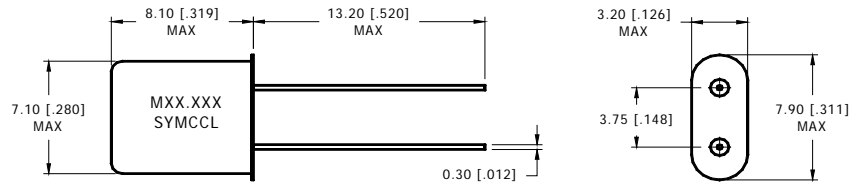
Frequency Range	ESR (Ohms)	Mode / Cut
7.000MHz to 40.000MHz	40 Max	Fund / AT
24.000MHz to 34.999MHz	60 Max	3 rd OT / AT
35.000MHz to 125.000MHz	40 Max	3 rd OT / AT
60.000MHz to 200.000MHz	60 Max	3 rd OT / AT

Part Number Guide



Please Consult with MMD Sales Department for any other Parameters or Options

Mechanical Details



DIMENSION IN BRACKETS ARE IN INCHES



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