

U Series Crystal



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



ELECTRICAL SPECIFICATIONS:

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, 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:

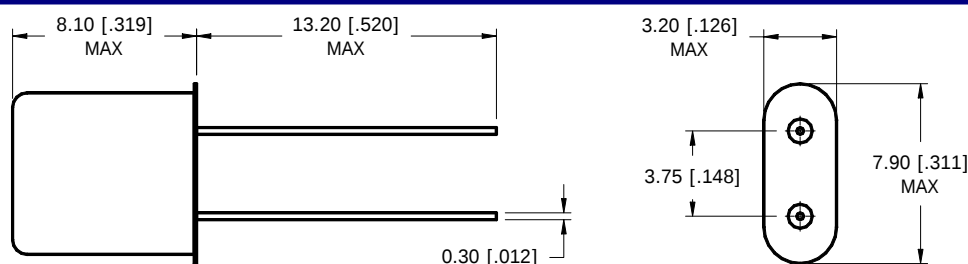
Frequency Range	ESR (Ohms)	Mode / Cut
7.000MHz to 40.000MHz	40 Max	Fund / AT
24.000MHz to 34.999MHz	60 Max	3 rd OT / AT
35.000MHz to 125.000MHz	40 Max	3 rd OT / AT
60.000MHz to 200.000MHz	60 Max	3 rd OT / AT

MARKING:

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

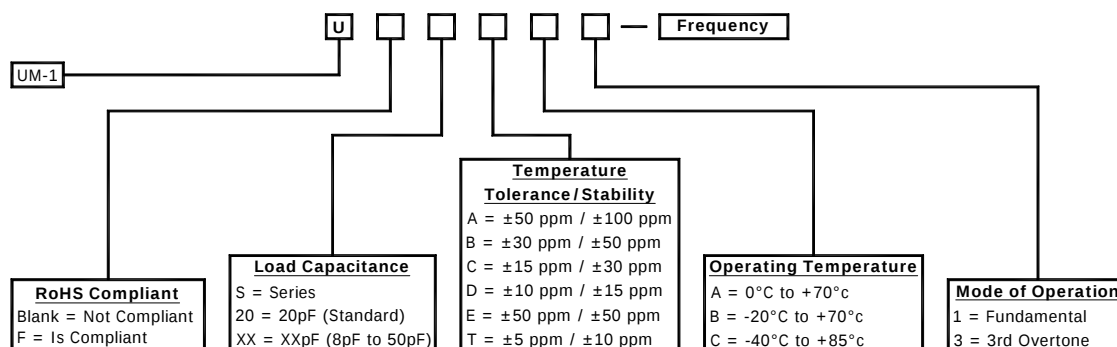
Line 2: SYMCCL
S = Internal Code
YM = Date Code (Year/Month)
CC = Crystal Parameters Code
L = Denotes RoHS Compliant

MECHANICAL DETAILS:



DIMENSION IN BRACKETS ARE IN INCHES

PART NUMBER GUIDE:



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

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