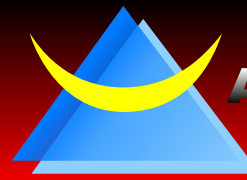


CU1 SERIES

- UM1 Thru-Hole Crystal
- AT Cut. Tight tolerance / stability
- Wide Frequency Range
- RoHS Compliant



ASCEND

FREQUENCY DEVICES

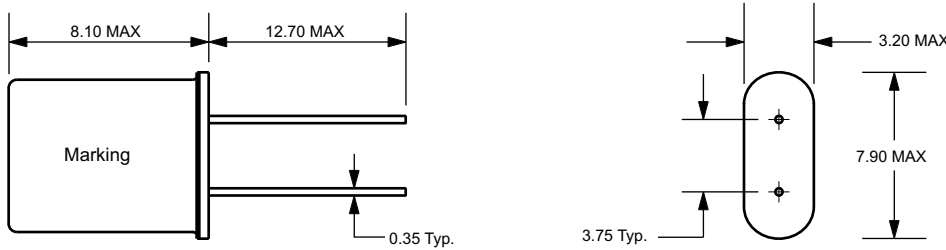
Electrical Specifications

Frequency Range:	10.000MHz to 200.000MHz
Frequency Tolerance/Stability:	Select from options below
Operating Temperature Range:	Select from options below
Storage Temperature Range:	-55°C to +125°C
Aging:	±1ppm / year Maximum
Shunt Capacitance:	7pF Maximum
Load Capacitance:	Select from options below
Equivalent Series Resistance:	See ESR Table Below
Mode of Operation:	Fundamental, 3rd Overtone or 5th Overtone
Insulation Resistance:	500 Megaohms Maximum at 100Vdc
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

Equivalent Series Resistance Table

Frequency Range	ESR (Ohms)	Mode / Cut
10.000MHz to 15.999MHz	50 Maximum	Fundamental / AT
16.000MHz to 44.736MHz	40 Maximum	Fundamental / AT
30.000MHz to 90.000MHz	70 Maximum	Third Overtone / AT
80.000MHz to 100.000MHz	150 Maximum	Fifth Overtone / AT
100.001MHz to 120.000MHz	120 Maximum	Fifth Overtone / AT
120.001MHz to 150.000MHz	100 Maximum	Fifth Overtone / AT

Mechanical Dimensions



MARKING

Line 1: Ascend
 Line 2: XX.XXXR
 ("R" Denotes RoHS Compliance)
 Line 3: XXXXXX (Date Code)

ALL DIMENSIONS
 IN MILLIMETERS

Part Numbering Guide

CU1 A A 1 20 1 - 33.000M

Series

CU1 = UM1

Frequency Tolerance

A = ±5ppm E = ±25ppm
 B = ±10ppm F = ±30ppm
 C = ±15ppm G = ±50ppm
 D = ±20ppm H = ±100ppm

Frequency Stability

A = ±5ppm E = ±25ppm
 B = ±10ppm F = ±30ppm
 C = ±15ppm G = ±50ppm
 D = ±20ppm H = ±100ppm

Temperature Range

1 = -10°C to +60°C
 2 = -20°C to +70°C
 3 = -40°C to +85°C

Frequency

Mode of Operation

1 = AT Fundamental
 3 = 3rd Overtone
 5 = 5th Overtone

Load Capacitance

SR = Series 16 = 16pF
 08 = 8pF 18 = 18pF
 09 = 9pF 20 = 20pF
 10 = 10pF 32 = 32pF
 12 = 12pF XX = Other

Not all temperature/stability options are available. Please consult with factory for current capabilities

