Manufacturer of High Quality Frequency Control Products

UM Crystal Series

- Miniature Metal Thru-Hole Crystal
- Available in 3 heights, UM1: 8.1mm, UM4: 4.8mm, UM5: 6.0mm and as Surface Mount Gull Wing: UM1G

10.000 MHz - 150.00 MHz



Calibration Frequency Tolerance at 25°C **Operating Temperature Range (OTR)**

Frequency Stability (FS) over OTR **Drive Level**

Aging at 25°C

Shunt Capacitance Pullability

± 30 PPM is standard, tighter tolerances available

0 to +70°C is standard, but can be extended to -40 to +85°C

± 50 PPM is standard, see below for tighter tolerances available per OTR options

50 μW is standard, customer may specify

± 5 PPM per year is standard, customer may specify ± 1 PPM

7 pF maximum

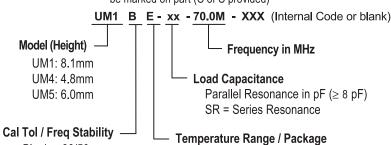
May be specified by customer in terms of frequency shift required over a certain range of load capacitance

(e.g. +100 PPM from CL=12 to CL=18 pF) or as motional capacitance (fF)

Temperature Range	Tightest FS
-10 to +60°C	±3 PPM
-20 to +70°C	± 5 PPM
-30 to +80°C	± 10 PPM
-40 to +85°C	+ 20 PPM

Part Numbering Guide

Portions of the part number that appear after the frequency may not be marked on part (C of C provided)



Blank = 30/50Blank: 0 to +70°C B = 30/30E: - 40 to +85°C C = 15/30H: - 20 to +70°C D = 10/20 (consult factory) G: Gull Wing Surface Mount Package (UM1 only)

Consult factory for available frequencies and specs.

Not all options available for all frequencies. A special part number may be assigned.

ESR Values

Oscillation	Frequency Range	Maximum
Mode	(MHz)	ESR (Ohms)
Fundamental	10.000 - 14.999	60
AT Cut	15.000 - 37.000	35
3rd Overtone AT Cut	25.000 - 90.000	45
5th Overtone	60.000 - 150.000	100

Consult factory for lower ESR

Mechanical: inches (mm)

not to scale

Gull Wing - UM1G

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.

