



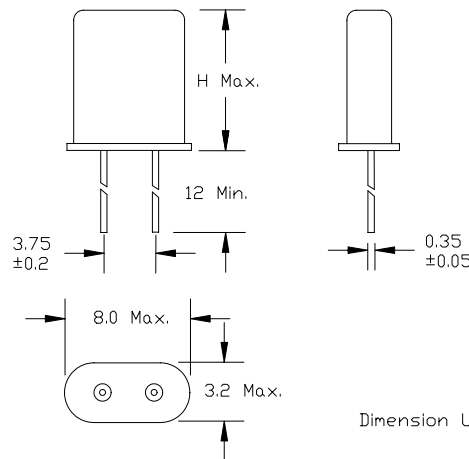
Leaded Crystal, AT cut
2 Lead Metal Package, 3.2 mm x 8 mm

UM1 / UM4 / UM5 Series

Frequency Range (MHz)	7.0 MHz to 160 MHz
Equivalent Series Resistance (Ω Max.)	Frequency and mode related, see table below
Shunt Capacitance (C0)	7 pF Max.
Frequency Tolerance	± 30 ppm Standard (see Appendix A for more options)
Frequency Stability over Temperature	± 50 ppm Standard (see Appendix A for more options)
Crystal Cut	AT Cut
Load Capacitance	18 pF Standard (see Appendix A for more options)
Drive Level	1 mW Max.
Aging	± 5 ppm Max. / Year Standard
Temperature	
Operating	0° C to +70° C Standard (see Appendix A for more options)
Storage	-40° C to +85° C Standard
Environmental	See Appendix B for information
Package Information	MSL = N.A., Termination = e4 (S versions e1 / e4)

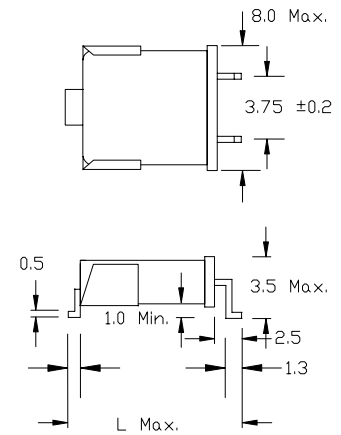
Frequency (MHz)	Mode	ESR (Ω) Max.
7.0 to 9.9	Fund.	100
10 to 14.9	Fund.	60
15 to 29.9	Fund.	30
30 to 36	Fund.	20
30 to 49.9	3 rd	70
50 to 100	3 rd	50
75 to 160	5 th	80

UM1 / UM4 / UM5



Part	Max. Height (H)
UM1	8.0 Max.
UM4	4.7 Max.
UM5	6.0 Max.

UM1S / UM4S / UM5S



Part	Max. Length (L)
UM1S	12.5 Max.
UM4S	8.6 Max.
UM5S	10.3 Max.

Dimension Units: mm

Vinyl sleeve, 3rd wire lead, base insulator, cut leads are available with this part. See Appendix A or consult ILSI America.

Part Number Guide		Sample Part Number: UM1 - FB1F18 - 20.000				
Package	Frequency Tolerance	Frequency Stability	Operating Temp.	Mode	Load Capacitance	Frequency
UM1 -	F = ± 30 ppm	B = ± 50 ppm	1 = 0° C to +70° C	F = Fundamental	18 = 18 pF	- 20.000 MHz