



Package	Height H
UM-1	8.00 max
UM-4	4.80 max
UM-5	6.00 max

Slim case (2.6mm thick is available as an option over 20.0MHz. Contact our sales office for details.

## Features

- ▶ Ideal for custom frequencies & specifications
- ▶ Wide frequency range
- ▶ Tight specifications available
- ▶ Fundamental mode up to 55.0MHz

## ESR Values

The table shows the maximum ESR values in ohms for each package across the available frequency range.

Frequency	Mode	UM-1	UM-4	UM-5
3.5 ~ 4.99	Fundamental	200	-	-
5.0 ~ 5.99	Fundamental	150	-	-
6.0 ~ 6.99	Fundamental	120	-	-
7.0 ~ 7.99	Fundamental	100	-	-
8.0 ~ 9.99	Fundamental	90	-	-
10.0 ~ 15.9	Fundamental	40	60	60
16.0 ~ 55.0	Fundamental	30	40	40
30.0 ~ 49.9	3rd overtone	45	50	50
50.0 ~ 100	3rd overtone	60	60	60
60.0 ~ 150	5th overtone	90	120	120
130 ~ 300	7th overtone	150	150	150

## Specifications

**UM-1: 8.0mm maximum height**

**UM-4: 4.8mm maximum height**

**UM-5: 6.0mm maximum height**

Parameters	Product			Option Code
	UM-1	UM-4	UM-5	
Package:	UM-1 UM-4 UM-5	■ ■ ■	■ ■ ■	
Frequency range:	3.579 ~ 300MHz 10.0 ~ 300MHz	■ ■	■ ■	
Calibration tolerance:	±5ppm ±7.5ppm ±10ppm ±20ppm ±30ppm Other values (±3ppm ~ ±100ppm)	□ □ □ ■ □ □	□ □ □ ■ □ □	L M 1 2 3 specify
Temperature stability:	±5ppm ±7.5ppm ±10ppm ±20ppm ±30ppm Other values (±3ppm ~ ±100ppm)	□ □ □ □ ■ □	□ □ □ □ ■ □	L M 1 2 3 specify
Operating temperature range:	0 to +50°C -10 to +60°C -20 to +70°C -30 to +80°C -40 to +85°C Other values	□ ■ □ □ □ □	□ ■ □ □ □ □	0 1 2 3 4 specify
Circuit condition:	12pF 16pF 20pF 30pF Series resonant Other values	□ □ □ □ □ □	□ □ □ □ □ □	B D F J S specify
Oscillation mode:	Fundamental 3rd overtone 5th overtone 7th overtone	□ □ □ □	□ □ □ □	F 3 5 7
Static capacitance (C <sub>0</sub> ):	7pF max	■	■	
Equivalent series resistance (max):	see table	■	■	
Ageing:	±3ppm max first year	■	■	
Test drive level:	100µW	■	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

## Ordering Information

Product name + option codes + frequency  
eg: **UM-1/231JF 24.576MHz** 20/30/10/30-F

- ♦ Insulating washers and mounting clips available. See our website for details.
- ♦ Some combinations of stability and temperature range may not be available. Please check with us before ordering.