



Package	Length L
UM-1J	8.00 max
UM-4J	4.80 max
UM-5J	6.00 max

Scale 2:1

90° cranked leads are available as an option to save approx 1mm in overall length. Contact our sales office for more 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-1J	UM-4J	UM-5J
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-1J: 8.0mm maximum body length**

**UM-4J: 4.8mm maximum body length**

**UM-5J: 6.0mm maximum body length**

Parameters	Product			Option Code
	UM-1J	UM-4J	UM-5J	
<b>Package:</b>	UM-1J UM-4J UM-5J	■ ■ ■	■ ■ ■	
<b>Frequency range:</b>	3.579 ~ 300MHz 10.0 ~ 300MHz	■ ■	■ ■	
<b>Calibration tolerance:</b>	±5ppm ±7.5ppm ±10ppm ±20ppm ±30ppm Other values (±3ppm ~ ±100ppm)	□ □ □ ■ □ □	□ □ □ ■ □ □	L M 1 2 3 specify
<b>Temperature stability:</b>	±5ppm ±7.5ppm ±10ppm ±20ppm ±30ppm Other values (±3ppm ~ ±100ppm)	□ □ □ □ ■ □	□ □ □ □ ■ □	L M 1 2 3 specify
<b>Operating temperature range:</b>	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
<b>Circuit condition:</b>	12pF 16pF 20pF 30pF Series resonant Other values	□ □ □ □ □ □	□ □ □ □ □ □	B D F J S specify
<b>Oscillation mode:</b>	Fundamental 3rd overtone 5th overtone 7th overtone	□ □ □ □	□ □ □ □	F 3 5 7
<b>Static capacitance (C<sub>0</sub>):</b>	7pF max	■	■	■
<b>Equivalent series resistance (max):</b>	see table	■	■	■
<b>Ageing:</b>	±3ppm max first year	■	■	■
<b>Test drive level:</b>	100µW	■	■	■
<b>Soldering conditions:</b>	260°C, 10sec max x 2	■	■	■

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

## Ordering Information

Product name + option codes + frequency

eg: **UM-1J/231JF 16.0MHz** 20/30/10/30-F

- ◆ Available on T&R - 1k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.
- ◆ Some combinations of stability and temperature range may not be available. Please check with us before ordering.