



| 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 | |
| Package: | UM-1J UM-4J UM-5J | ■ | ■ | ■ | |
| Frequency range: | 3.579 ~ 300MHz 10.0 ~ 300MHz | ■ | ■ | ■ | |
| Calibration tolerance: | ±5ppm ±7.5ppm ±10ppm ±20ppm ±30ppm Other values (±3ppm ~ ±100ppm) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | L M 1 2 3 specify |
| Temperature stability: | ±5ppm ±7.5ppm ±10ppm ±20ppm ±30ppm Other values (±3ppm ~ ±100ppm) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | 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 | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 0 1 2 3 4 specify |
| Circuit condition: | 12pF 16pF 20pF 30pF Series resonant Other values | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | B D F J S specify |
| Oscillation mode: | Fundamental 3rd overtone 5th overtone 7th overtone | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | F 3 5 7 |
| Static capacitance (C₀): | 7pF max | ■ | ■ | ■ | |
| Equivalent series resistance (max): | see table | ■ | ■ | ■ | |
| Ageing: | ±3ppm max first year | ■ | ■ | ■ | |
| Test drive level: | 100µW | ■ | ■ | ■ | |
| Soldering conditions: | 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.