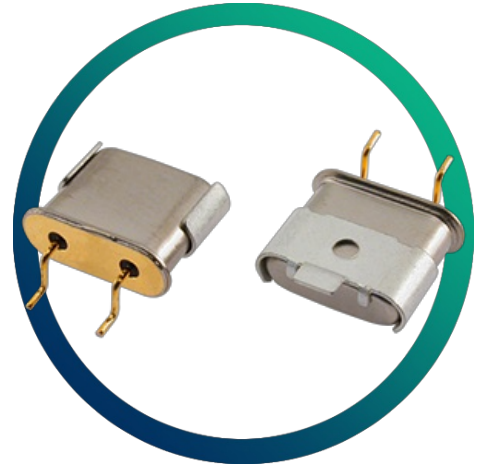


UM-5J

SM Crystal with Formed Leads for Closer Board Stacking

- Wide frequency range
- Tight specifications available
- Fundamental mode up to 55.0MHz
- Slim case (2.6mm) available over 20.0MHz



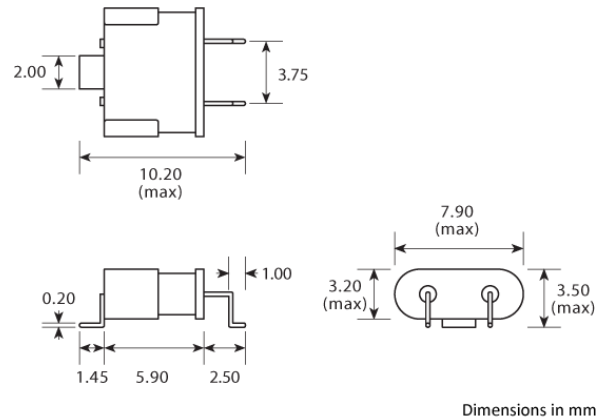
CONFIGURABLE OPTIONS

| Parameter | Option Code |
|------------------------------------|-------------|
| Frequency | |
| Calibration tolerance | |
| Any | |
| ±5ppm | L |
| ±7.5ppm | M |
| ±10ppm | 1 |
| ±20ppm | 2 |
| ±30ppm | 3 |
| Temperature stability | |
| Any | |
| ±5ppm | L |
| ±7.5ppm | M |
| ±10ppm | 1 |
| ±20ppm | 2 |
| ±30ppm | 3 |
| Operating temperature range | |
| Any | |
| 0 to +50°C | 0 |
| -10 to +60°C | 1 |
| -20 to +70°C | 2 |
| -30 to +80°C | 3 |
| -40 to +85°C | 4 |
| Circuit condition | |
| Any | |
| 12pF | B |
| 16pF | D |
| 20pF | F |
| 30pF | J |
| Series resonant | S |
| Oscillation mode | |
| Any | |
| Fundamental | F |
| 3rd overtone | 3 |
| 5th overtone | 5 |
| 7th overtone | 7 |

SPECIFICATIONS

| | |
|--------------------------------------|---|
| Frequency range | 10.0 ~ 300MHz |
| Dimensions | 9.6 x 7.8 x 3.5mm |
| Package | Resistance weld |
| Storage temperature range | -40 to +85°C |
| Static capacitance (C ₀) | 7pF max |
| Equivalent series resistance | 60Ω max (10.0 ~ 15.99MHz) 40Ω max (16.0 ~ 54.99MHz) 50Ω max (30.0 ~ 49.99MHz, 3rd OT) 60Ω max (50.0 ~ 100MHz, 3rd OT) 120Ω max (60.0 ~ 150MHz, 5th OT) 150Ω max (130 ~ 300MHz, 7th OT) |
| Ageing | ±3ppm max first year |
| Test drive level | 100μW |
| Soldering conditions | 260°C, 10sec max x 2 |

PACKAGE DRAWING



ORDERING INFORMATION

To request a quotation for the UM-5J please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

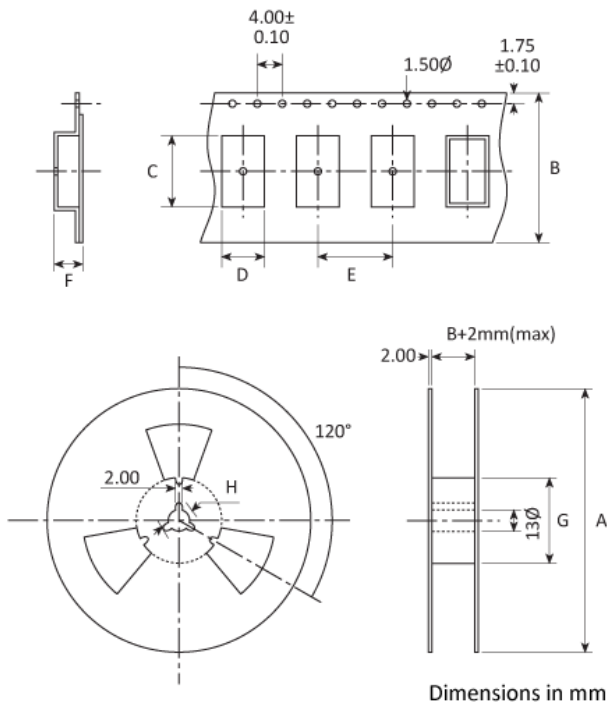
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

ESR VALUES

The table shows the maximum ESR value in ohms across the frequency range of the UM-5J

| Frequency | Oscillation Mode | ESR Value/ohms |
|-------------|------------------|----------------|
| 10.0 ~ 15.9 | Fundamental | 60 |
| 16.0 ~ 55.0 | Fundamental | 40 |
| 30.0 ~ 49.0 | 3rd Overton | 50 |
| 50.0 ~ 100 | 3rd Overtone | 60 |
| 60.0 ~ 150 | 5th Overtone | 120 |
| 130 ~ 300 | 7th Overtone | 150 |

TAPE & REEL SPECIFICATION



A:180 B:24 C:12.5 D:8.4 E:12 F:4.4 G:60 H:21

CONSTRUCTION

Resistance weld

HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to <500V)



Moisture Sensitivity Level (MSL): 1 (or not applicable)

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)



RoHS 2 compliant with no exemptions. [See our declaration](#)



REACH compliant. [See our statement](#)



Free of conflict minerals. [See our declaration](#)



Free of Halogens. [See our declaration](#)



Free of Ozone-depleting substances. [See our declaration](#)

OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).

To take advantage of our highly praised service get in touch with us today.