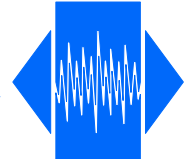


UM-4, UM-5, UM-1



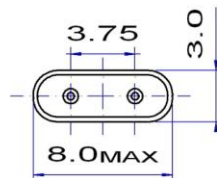
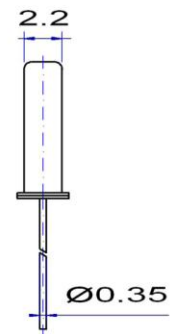
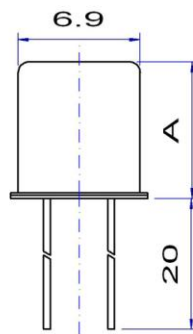
Metal packaged through hole Crystal

Features

- Applications: telecommunications, audio, navigation, instruments
- High frequency accuracy in stability and aging
- Wide frequency range: 8 to 250 MHz

| Parameter | Specification | |
|------------------------------------|---|--|
| Frequency range | 8 ~ 80 MHz 30 ~ 180 MHz 80 ~ 250 MHz | fundamental 3 rd overtone 5 th overtone |
| Mode of oscillation | AT cut 3 rd & 5 th overtone | |
| Standard frequencies | 10.00, 10.368, 15.36, 20.48, 20.945, 80.00, 100.00 125.00, 155.52 & 175.00 MHz | |
| Frequency tolerance | ±5 ~ ±20 ppm | @ +25 °C |
| Frequency stability | ±5 ~ ±20 ppm | vs. operating temperature range |
| Aging | < ±1 ppm | 1 st year |
| Load capacitance | series or parallel resonance (CL = 8 ~ 32 pF) | |
| Equivalent series resistance (ESR) | < 20 Ω @ 10 MHz < 12 Ω @ 32 MHz | |
| Drive level | 10 ~ 100 μW | |
| Operating temperature range | -20 ~ +70 °C -40 ~ +85 °C -40 ~ +125 °C | commercial application industrial application automotive & avionic application |
| Storage temperature range | -55 ~ +125 °C | |
| Packaging | tray or plastic bag | |
| Customer specifications on request | | |

| Type | UM-4 | UM-5 | UM-1 |
|--------|------|------|------|
| A [mm] | 4.4 | 6.0 | 8.0 |



2002/95/EC RoHS compliant

03 May. 10