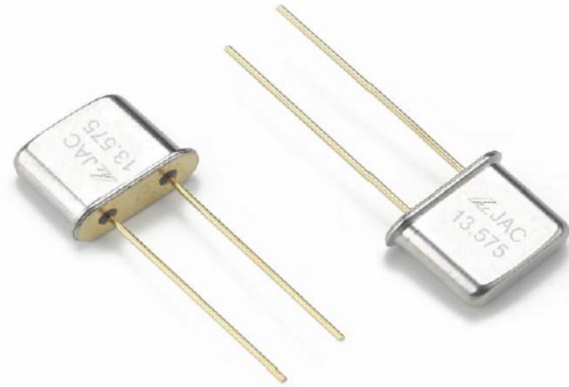


CRYSTAL UM-5 Type



Application of Crystal

- ▶ Best choice for mother board
- ▶ USB
- ▶ LAN card
- ▶ Router
- ▶ Switch



Features

- ▶ Low cost
- ▶ Industry standard package
- ▶ High reliability and stability crystal
- ▶ Wide frequency range and calibration tolerances available
- ▶ available
- ▶ Rohs compliant / Pb free



Electrical Specification

| NO | Model | CRYSTAL UM-5 Type |
|----|--|---|
| 1 | Frequency Range | 10.00 ~ 160.000 MHz |
| 2 | Frequency Tolerance at 25°C±2°C | ±5 ~ ±50 ppm (TYP.) |
| 3 | Frequency Stability Over Oper Temp Range | ±5 ~ ±50 ppm (TYP.) |
| 4 | Operating Temp Range | -10°C~ +60°C,-20°C~ +70°C or customer requirement |
| 5 | Load Capacitance | 6 pF ~ 32 pF, series or special |
| 6 | Shunt Capacitance | 7 pF Max. |
| 7 | Drive Level | 0.1uW ~ 1000uW(TYP: 100uW) |
| 8 | Insulation Resistance | 500MΩ min / DC 100V±15V |
| 9 | Oscillation Mode | Fundamental, 3rd & 5th overtone |
| 10 | Measure Instrument | S&A 250B |
| 11 | Aging Rate | ±3ppm/year |

Equivalent Series Resistance(ESR) VS Frequency

| NO | Frequency (MHz) | Fundamental | CRYSTAL UM-5 Type |
|----|-----------------|--------------|-------------------|
| 1 | 10.0 ~14.99 | Fundamental | 60Ω MAX |
| 2 | 15.0 ~ 50.0 | Fundamental | 35Ω MAX |
| 3 | 30.0 ~ 49.99 | 3rd overtone | 50Ω MAX |
| 4 | 50.0 ~ 100.0 | 3rd overtone | 60Ω MAX |
| 5 | 75.0 ~ 160.0 | 5rd overtone | 90Ω MAX |

CRYSTAL UM-5 Type



Dimensions (mm):

