

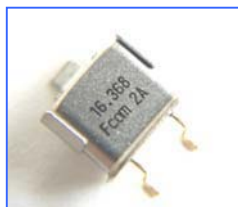
高信頼性水晶振動子 UM-1, -5, HC-49/U

HIGH RELIABILITY CRYSTAL UNITS

UM-1, -5, HC-49/U (SMD TYPE: J)

温度特性、経時変化変化に優れ、移動体通信、マルチメディア関係までの幅広い用途に最適です。

Excellent Temperature characteristic, Aging and suitable for the various such as mobile communications and multimedia etc.



Main Applications

- ☆ 通信機器装置/Telecommunication equipment
- ☆ 携帯電話, GPS/Portable phone, GSM, GPS

特長 / Features

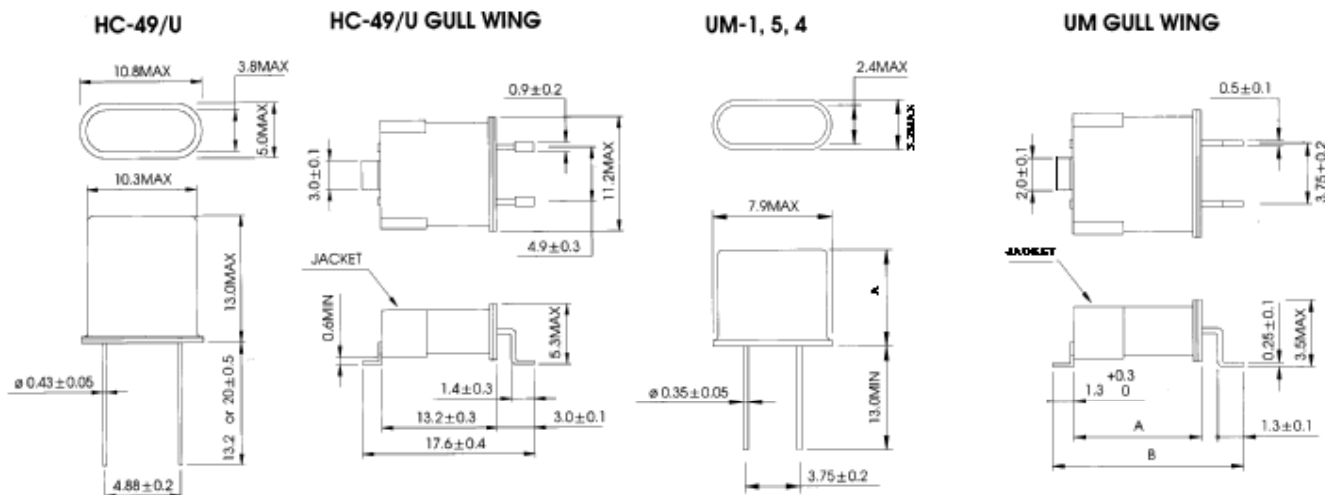
- ☆ 高安定、高信頼性/High reliability
- ☆ リフロー可能です。(Jタイプ)/Reflow available. (J type)
- ☆ エンボステーピングによる自動実装可能/Automatic and perfect packaging due to emboss taping.
- ☆ 鉛フリー、RoHS指令対応品 / Pb free, RoHS compliant

仕様 / Specification

| 仕様/Specification | |
|---------------------------------------|--|
| 項目 / Item | UM-1, -5, HC-49/U (SMD type: J) |
| 周波数 / Frequency | 6.00 ~ 40.0MHz 40.0 ~ 200.0MHz |
| 振動モード / Oscillation mode | AT cut, Fundamental, 3rd, 5th and 7th overtone |
| 周波数偏差 / Frequency tolerance | ±5ppm ~ ±50ppm at 25°C |
| 温度特性 / Temperature tolerance | ±3ppm ~ (-10°C ~ +60°C) ±5ppm ~ (-20°C ~ +70°C) ±15ppm ~ (-40°C ~ +85°C) |
| 等価直列抵抗 / Equivalent series resistance | Fundamental: 60 Ω max., 3rd overtone: 100 Ω max. 5th overtone: 140 Ω max., 7th overtone: 160 Ω max. |
| 並列容量 / Shunt capacitance | 7pF max. |
| 負荷容量 / Load capacitance | Series resonance, 16pF, 20pF (Standard) |
| ドライブレベル / Drive level | 10 ~ 100 μW |
| 経時変化 / Aging ΔF/F | ±1ppm max. (25°C±3°C) (First year) |

Specifications, which are different from those above, may be acceptable.

外形寸法 / Dimensions (mm)



| Dimension | UM-1 | UM-5 |
|-----------|------|------|
| A | 8.1 | 5.8 |
| B | 12.8 | 10.5 |