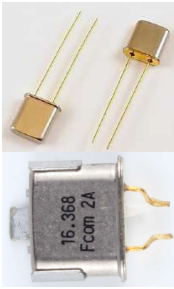


高信頼性水晶振動子 UM-1, -5

HIGH RELIABILITY CRYSTAL UNITS



UM-1, -5 (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

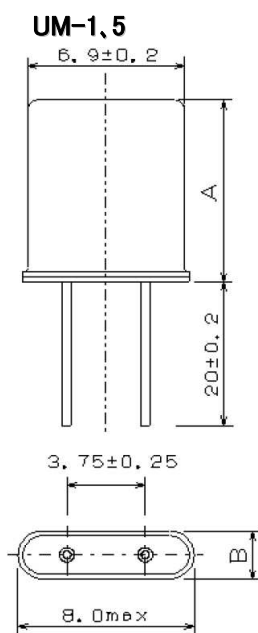
- ☆ 高安定、高信頼性/High reliability
- ☆ リフロー可能です。(Jタイプ)/Reflow available. (J type)
- ☆ エンボステーピングによる自動実装可能/Automatic and perfect packaging due to emboss taping.
- ☆ 鉛フリー、RoHS指令対応品 / Pb free, RoHS compliant

仕様 / Specification

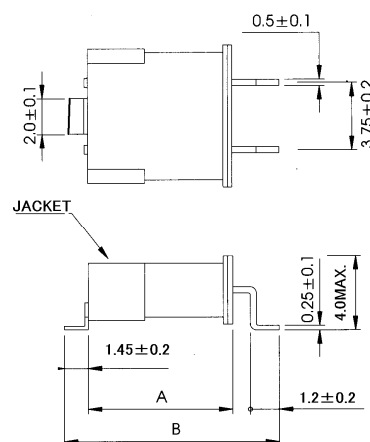
仕様/Specification	
項目 / Item	UM-1, -5 (SMD type: J)
周波数 / Frequency	4.000 ~ 200.0MHz/UM-1 10.0 ~ 200.0MHz/UM-5
振動モード / Oscillation mode	AT cut, Fundamental, 3rd, 5th overtone
周波数偏差 / Frequency tolerance	±2.5ppm ~ ±50ppm at 25°C
温度特性 / Temperature tolerance	-55°C ~ +125°C
等価直列抵抗 / Equivalent series resistance	Fundamental: 30Ω ~ 700Ω , 3rd overtone: 100Ω max. 5th overtone: 140Ω max. , 7th overtone: 160Ω max.
並列容量 / Shunt capacitance	7pF max.
負荷容量 / Load capacitance	Series resonance, 8pF ~ 30pF)
ドライブレベル / Drive level	10μ ~ 1mW
経時変化 / Aging ΔF/F	±1 ~ 5ppm max. (25°C ± 3°C) (First year)

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

外形寸法 / Dimensions (mm)



UM-5 Gull Wing (SMD Type J)



Case	A	B
UM-1	6.0mm ± 0.2	3.0mm ± 0.2
UM-5	8.0mm ± 0.2	3.0mm ± 0.2
UM-5J	8.0mm ± 0.2	10.5mm ± 0.2