

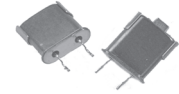
CRYSTAL UNITS

TUM-1, TUM-5 Series Crystal

Miniature Precison Crystals

RoHS Complaint Optional

TUM-1
Gullwing



TUM-1

Features:

- ❖ Miniature, resistance welded package
- ❖ Tape and reel available
- ❖ VP/ IR solder re-flow compatible
- ❖ SMD version available - specify SMD type
- ❖ Tighter tolerances and stabilities available

Models: TUM-1, TUM-4, TUM-5 Specifications

Frequency Range	7.000 to 130.0 MHz
Frequency Tolerance	±10, 30, 50, or ±100 ppm
Frequency Stability	±10, ±20, ±30, ±50, ±100ppm
Operating Temperature Range	-20 to 70°C (Note: 1)
Storage Temperature Range	-55 to 125°C
Load Capacitance	Series,16, 20, 30, or 32 pF
Shunt Capacitance	7pF max.
Mode of Vibration	See Table
Equivalent Series Res. (max.)	See Table
Drive Level	10 μW to 1mW
Aging	±5 × 10 ⁻⁶ /Year Max.

Frequency (MHz)	Mode	ESR max. (Ω)
7.0 ≤ 13.0	AT1	≤45
13.0 ≤ 50.0	AT1	≤50
25.0 ≤ 48.0	AT3	≤40
48.0 ≤ 100.0	AT3	≤50
75.0 ≤ 125.0	AT5	≤100
125.0 ≤ 180.0	AT7	≤120

AT1 AT cut Fundamental
 AT3 AT cut 3rd Overtone
 AT5 AT cut 5th Overtone
 AT7 AT cut 7th Overtone

Note 1: Optional Operating Temperature Ranges available - contact factory

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