

Quartz Crystal Units

NUM1

[7.8×3.2×8.0 mm]

NUM5

[7.8×3.2×6.0 mm]

Thru-hole Type

Tolerance

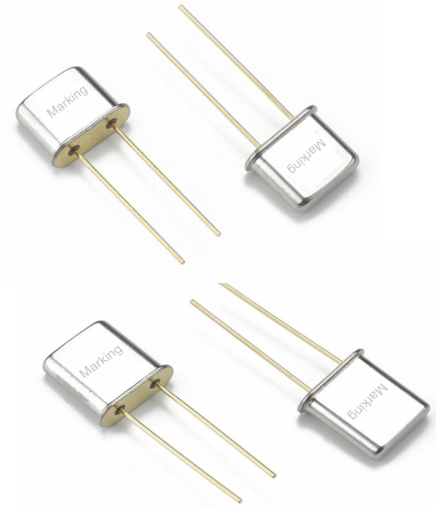
±10ppm ~ ±50ppm

Frequency Range

3MHz~200MHz

Features

- Resistance welder type crystal units
- Wide frequency range from 3MHz to 200MHz
- A great number of standard frequencies
- Excellent aging characteristics
- Uniform frequency tuning range and modulation sensitivity
- Applications: TV, STB, LCDM, Communication, Mobile radio communications, Cable modem, etc
- RoHS Compliant / Pb-Free



Standard Specifications

| Item / Type | NUM1 (UM-1) | NUM5 (UM-5) |
|-------------------------------|--|-------------|
| Frequency Range | 3.579545~200 MHz (Fund. /3rd /5th /7th) | |
| Load Capacitance | Series of Parallel (8 to 32pF) resonance, or specify | |
| Drive Level | 100 μW typical (500 μW max.) | |
| Frequency Tolerance (at 25°C) | ± 10ppm, ±20ppm, ±30ppm, ±50ppm, or specify | |
| Aging | ±3ppm / Year (max.) | |
| Storage Temperature Range | -55°C~+125°C | |

ESR (Equivalent Series Resistance)

| Fundamental | | 3rd Overtone | | 5th / 7th Overtone | |
|-----------------|------------|-----------------|-----------|--------------------|------------|
| Frequency Range | E.S.R | Frequency Range | E.S.R | Frequency Range | E.S.R |
| 3~5MHz | 100 Ω max. | 24~35MHz | 40 Ω max. | 100~200MHz | 100 Ω max. |
| 5~6MHz | 90 Ω max. | 35~100MHz | 80 Ω max. | | |
| 6~7MHz | 80 Ω max. | | | | |
| 7~10MHz | 60 Ω max. | | | | |
| 10~16MHz | 50 Ω max. | | | | |
| 16~24MHz | 40 Ω max. | | | | |

Frequency stability Vs Operating temperature range

| Temp. (°C) | ppm | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|
| | ±5 | ±10 | ±15 | ±20 | ±25 | ±30 | ±50 |
| -10~+60 | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| -20~+70 | ▲ | ○ | ○ | ○ | ○ | ○ | ○ |
| -40~+85 | × | ▲ | ○ | ○ | ○ | ○ | ○ |

▲: Conditional
○: Available
×: Not available

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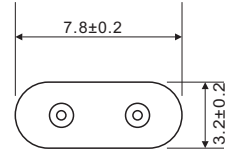
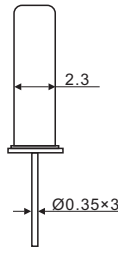
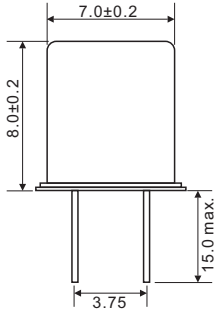
±10ppm ~ ±50ppm

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Outline Dimensions (Unit: mm)

NUM1 (UM-1)



NUM5 (UM-5)

