TU1M

# *CRYSTAL UNITS*
# TU1M Series Crystal
# Very-Low Profile, SMD

RoHS

## *Features:*

- Ultra-miniature, low profile package, SMD
- High reliability, seam welded
- VP/ IR solder reflow compatible
- GSM, GPS, PCMIA, Wireless Modem, Paging
- Tighter Tolerance
- Shielded
- Tape and Reel Available

## Model: TU1M Series Specifications

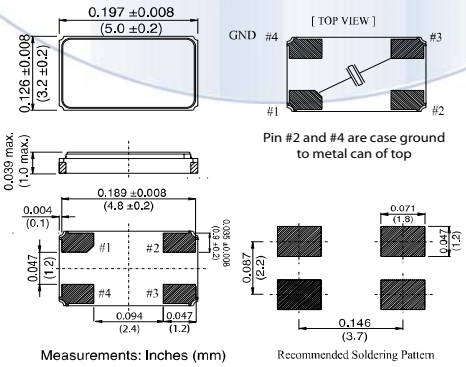
| | |
|---|---|
| Frequency Range | 13.00 to 50.00 MHz |
| Frequency Tolerance | ±10ppm to ±30ppm |
| Frequency Stability | See Table |
| Operating Temperature Range | See Table |
| Storage Temperatrure Range | -50 to +125 °C |
| Load Capacitance | Series, 10 to 32 pF |
| Shunt Capacitance | 7pF max. |
| Mode of Vibration | Fundamental |
| Equivalent Series Resistance | See Table |
| Drive Level | 10 µW to 100µW max. |
| Resistance for Reflow | ±1.0 ppm max. |
| Aging | ±5.0 ppm year/max. |

| Frequency (MHz) | Mode | ESR max. (Ω) |
|---|---|---|
| 13.00 to 15.99 | AT1 | 60 |
| 16.00 to 19.99 | AT1 | 40 |
| 20.00 to 50.99 | AT1 | 30 |

AT1 AT cut Fundamental

| Temperature | Stability (ppm) |
|---|---|
| 0 to 50°C | ±5, ±10, ±15, ±20, ±25, ±30 |
| -10 to 60°C | ±10, ±15, ±20, ±25, ±30 |
| -20 to 70°C | ±10, ±15, ±20, ±25, ±30 |
| -40 to 85°C | ±20, ±25, ±30 |

*TU1M Package*

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