



TU1M

RoHS Compliant Standard

CRYSTAL UNITS

TU1M Series Crystal

Very-Low Profile, SMD

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 (MHz) | Mode | ESR max. (Ω) |
| Frequency Tolerance | ±10ppm to ±30ppm | 13.00 to 15.99 | AT1 | 60 |
| Frequency Stability | See Table | 16.00 to 19.99 | AT1 | 40 |
| Operating Temperature Range | See Table | 20.00 to 50.99 | AT1 | 30 |
| Storage Temperature Range | -50 to +125 °C | AT1 | AT cut Fundamental | |
| Load Capacitance | Series, 10 to 32 pF | Temperature | Stability (ppm) | |
| Shunt Capacitance | 7pF max. | 0 to 50°C | ±5, ±10, ±15, ±20, ±25, ±30 | |
| Mode of Vibration | Fundamental | -10 to 60°C | ±10, ±15, ±20, ±25, ±30 | |
| Equivalent Series Resistance | See Table | -20 to 70°C | ±10, ±15, ±20, ±25, ±30 | |
| Drive Level | 10 μW to 100μW max. | -40 to 85°C | ±20, ±25, ±30 | |
| Resistance for Reflow | ±1.0 ppm max. | | | |
| Aging | ±5.0 ppm year/max. | | | |

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