



TU1B

*RoHS Compliant Standard*

# CRYSTAL UNITS

## TU1B Series Crystal

### Ultra-Low Profile, SMD

**Features:**

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

**Model: TU1B Series Specifications**

Frequency Range	16.00 to 50.00 MHz
Frequency Tolerance	±10 ppm to ±50 ppm
Frequency Stability	See Table
Operating Temperature Range	See Table
Storage Temperature Range	-40 to 90°C
Load Capacitance	Series, 10 to 32 pF
Shunt Capacitance	7 pF max.
Mode of Vibration	Fundamental
Equivalent Series Resistance	See Table
Drive Level	10 μW to 100 μW max.
Resistance for Reflow	±1.0 ppm max.
Aging	±5.0 ppm year/max.

Frequency (MHz)	Mode	ESR max. (Ω)
16.00 to 18.99	AT1	90
19.00 to 24.99	AT1	80
25.00 to 31.99	AT1	60
32.00 to 50.00	AT1	50

AT1      AT cut Fundamental

Temperature	Stability (ppm)
0 to 50°C	±5, ±10, ±15, ±20, ±25, ±30
-10 to 60°C	±5, ±10, ±15, ±20, ±25, ±30
-20 to 75°C	±15, ±20, ±25, ±30

*CRYSTAL: TU1B Series Crystal*

*CRYSTAL: TU1B Series Crystal*

