



RoHS Compliant Standard

CRYSTAL UNITS

TU1A Series Crystal

Ultra-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: TU1A Series Specifications

Frequency Range	18.00 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)
18.00 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: TU1A Series Crystal

CRYSTAL: TU1A Series Crystal

