



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
- ◆ Ceramic Package
- ◆ Tape and Reel Available

Model: TU1A Series Specifications

Parameter	TU1A
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 85°C
Load Capacitance	Series, 8 to 32 pF
Shunt Capacitance	7 pF max.
Mode of Vibration	Fundamental
Equivalent Series Resistance	See Table
Drive Level	10 uW to 100 uW
Resistance for Reflow	±1.0 ppm max.
Aging	±1.0 ppm / per year max.

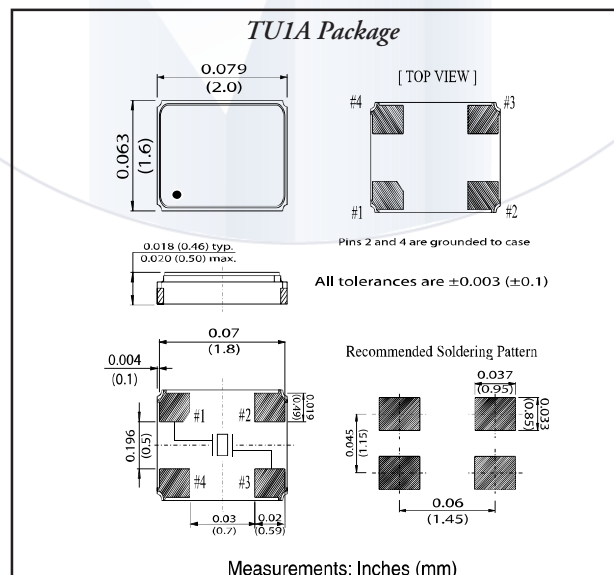
Frequency (MHz)	Mode	ESR (Ohms)
18.00 to 32.00	AT1	60
32.00 to 50.00	AT1	50

ATI= AT cut fundamental

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

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Tellurian® Technologies, Inc.

1801 Hicks Road • Rolling Meadows, IL 60008 • Tel 847-934-4141 • Fax 847-934-4175
• Email: info@telluriantech.com • www.telluriantech.com