



TU1A

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	24.00 to 50.00 MHz		
Frequency Tolerance	±10ppm to ±50ppm		
Frequency Stability	See Table		
Operating Temp. Range	See Table		
Storage Temp. Range	-40 to +90 °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)
25.00 to 31.99	AT1	60
32.00 to 50.00	AT1	50

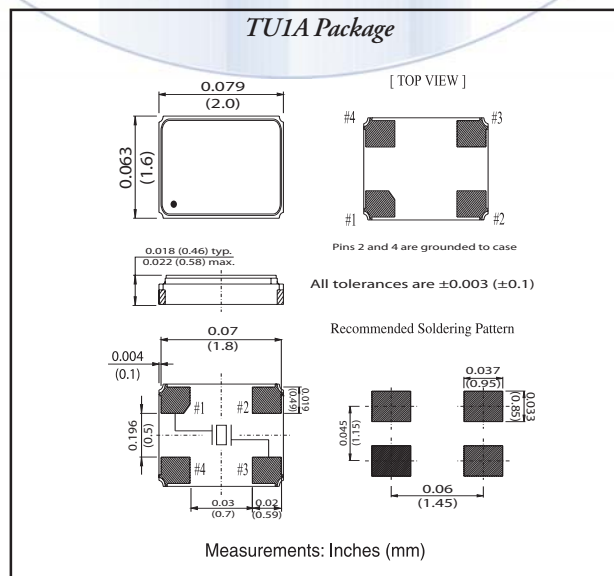
AT1      AT cut Fundamental

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

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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