

TU1

RoHS Complaint Standard

# CRYSTAL UNITS

## TU1 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: TU1 Series Specifications**

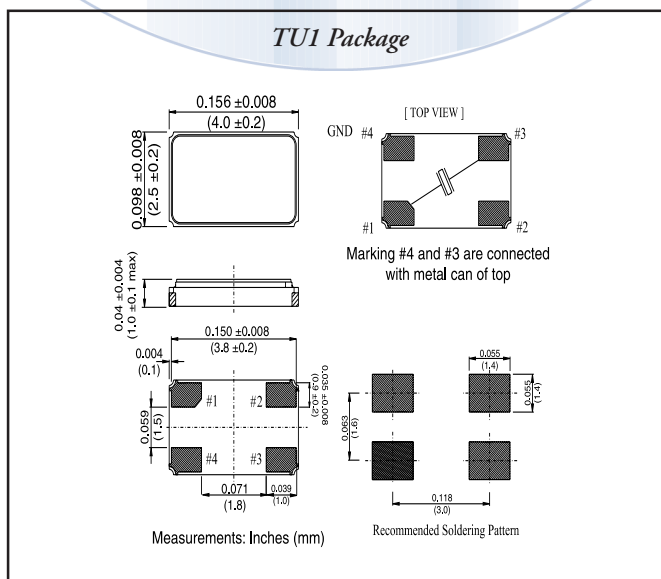
Frequency Range	13.00 to 50.00 MHz
Frequency Tolerance	±10ppm to ±30ppm
Frequency Stability	See Table
Operating Temperature Range	See Table
Storage Temperature Range	-55 to +125 °C
Load Capacitance	Series, 10 to 32 pF
Shunt Capacitance	7pF max.
Mode of Vibration	Fundamental
Equivalent Series Resistance	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)
13.00 to 22.00	AT1	80
22.01 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	±10, ±15, ±20, ±25, ±30
-20 to 70°C	±10, ±15, ±20, ±25, ±30
-40 to 85°C	±20, ±25, ±30

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