



# CRYSTAL UNITS

## TU1C 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: TU1C Series Specifications

Frequency Range	12.00 to 75.00 MHz
Frequency Tolerance	±5ppm 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.

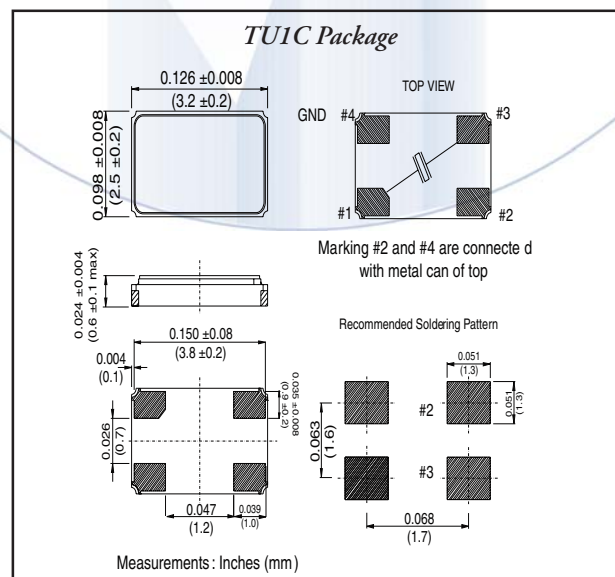
Frequency (MHz)	Mode	ESR max. (Ω)
12.00 to 20.00	AT1	100
20.01 to 30.00	AT1	80
30.01 to 75.00	AT1	60

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 70°C	±10, ±15, ±20, ±25, ±30
-40 to 85°C	±15, ±20, ±25, ±30

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