



TU1H

RoHS Complaint Standard

## CRYSTAL UNITS

### TU1H Series Crystal

#### Very-Low Profile, SMD

#### Features:

- ❖ Ultra-miniature, low profile package, SMD
- ❖ High reliability, seam welded
- ❖ VP/ IR solder reflow compatible
- ❖ GSM, GPS, PCMCIA, Wireless Modem, Paging
- ❖ Tighter Tolerance
- ❖ Shielded
- ❖ Tape and Reel Available

#### Model: TU1H Series Specifications

Frequency Range	8.00 to 120.00 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.

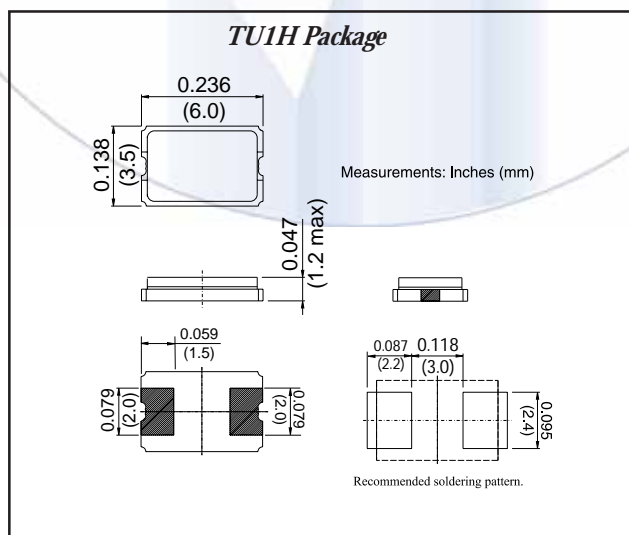
Frequency (MHz)	Mode	ESR max. (Ω)
8.00 to 9.99	AT1	100
10.00 to 12.99	AT1	80
13.00 to 13.99	AT1	50
14.00 to 19.99	AT1	40
20.00 to 47.99	AT1	30
48.00 to 120	AT3/AT5	120

AT1 AT cut Fundamental  
 AT3 AT cut 3rd Overtone  
 AT5 AT cut 5th Overtone

Temperature	Stability (ppm)
0 to 50°C	±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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