



TU1B

RoHS Compliant Standard

CRYSTAL UNITS

TU1B Series Crystal

Ultra-Low Profile, SMD

Features:

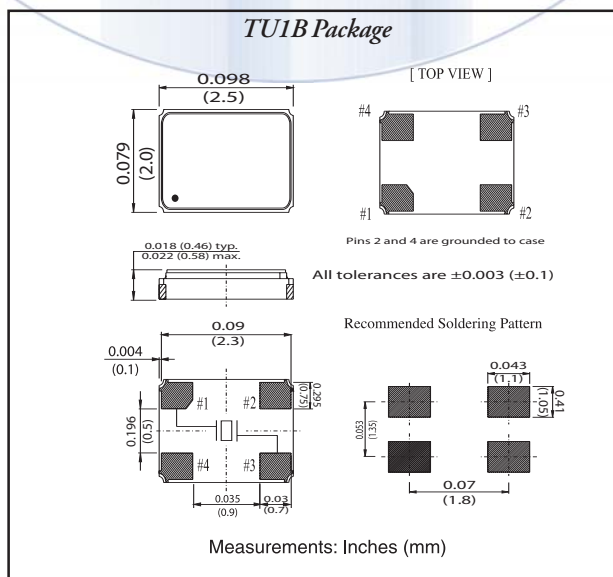
- ◆ Ultra-miniature, low profile package, SMD
- ◆ High reliability, seam welded
- ◆ VP/ IR solder reflow compatible
- ◆ GSM, GPS, PCMIA, Wireless Modem, Paging
- ◆ Tighter Tolerance
- ◆ Shielded
- ◆ Tape and Reel Available

Model: TU1B Series Specifications

Frequency Range	16.00 to 50.00 MHz	Frequency (MHz)	Mode	ESR max. (Ω)
Frequency Tolerance	± 10 ppm to ± 50 ppm	16.00 to 18.99	AT1	90
Frequency Stability	See Table	19.00 to 24.99	AT1	80
Operating Temp. Range	See Table	25.00 to 31.99	AT1	60
Storage Temp. Range	-40 to +90 °C	32.00 to 50.00	AT1	50
Load Capacitance	Series, 10 to 32 pF	AT1 AT cut Fundamental		
Shunt Capacitance	7pF max.	Temperature	Stability (ppm)	
Mode of Vibration	Fundamental	0 to 50°C	$\pm 5, \pm 10, \pm 15, \pm 20, \pm 25, \pm 30$	
Equivalent Series Resistance	See Table	-10 to 60°C	$\pm 5, \pm 10, \pm 15, \pm 20, \pm 25, \pm 30$	
Drive Level	10 μ W to 100 μ W max.	-20 to 75°C	$\pm 15, \pm 20, \pm 25, \pm 30$	
Resistance for Reflow	± 1.0 ppm max.			
Aging	± 5.0 ppm year/max.			

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