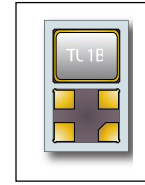


# TU1B Crystal Resonator



**FEATURES:**

**Tight Tolerance**  
**Ultra-Miniature**

**Seam Sealed Lid**  
**2.5 x 2.0 x 0.7 mm**

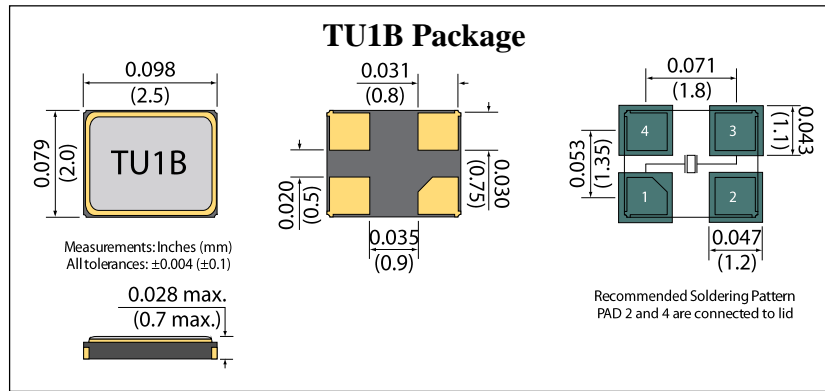
Parameter	Unit	Min.	Typ.	Max.
Frequency Range (FR)	MHz	16.000	-	54.000
Operating Temperature Range	°C	See Table		
Frequency Tolerance at 25°C	ppm	±10	-	±50
Frequency Stability	ppm	See Table		
Load Capacitance (C <sub>L</sub> )	pF	6	-	Series
Shunt Capacitance (C <sub>0</sub> )	pF	-	-	7
Equivalent Series Resistance (R)	Ohms	See Table		
Drive Level	μW	10	-	100
Aging first year	ppm	-	-	±5.0
Storage Temperature Range	°C	-40	-	+85

Frequency (MHz)	ESR (Ohms) max.
Fundamental Mode	
16.000 to 19.000	150
>19.000 to 25.000	60
>25.000 to 32.000	50
>32.000 to 54.000	50

Temperature	Stability (ppm)
-10 to 60°C	±10, ±15, ±20, ±25, ±30, ±50
-20 to 70°C	±10, ±15, ±20, ±25, ±30, ±50
-40 to 85°C	±15, ±20, ±25, ±30, ±50

**Environmental**

Terminal Material	W
Terminal Plating	Ni-Au
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1



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Example Part Number: TU1B-D-E-16-18-25M576

TU1B	1	2	3	4	5
<b>Tolerance</b>	A = ±50 B = ±30 C = ±25 D = ±20 E = ±15 F = ±10	<b>Stability</b> A = ±50 B = ±30 C = ±25 D = ±20 E = ±15 F = ±10	<b>Temp. Range</b> 16 = -10 to +60°C 27 = -20 to +70°C 48 = -40 to +85°C	<b>Load Cap.</b> AA = Series xx = Load i.e. 16, 24, 32	<b>Frequency</b> Frequency in MHz i.e. 25M456 use M for decimal point

Note: Consult factory for additional potential options not listed.