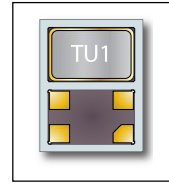


TU1 Crystal Resonator



FEATURES:

**Tight Tolerance
High Reliability and Precision**

**Seam Sealed Lid
4.0 x 2.5 x 0.8 mm**

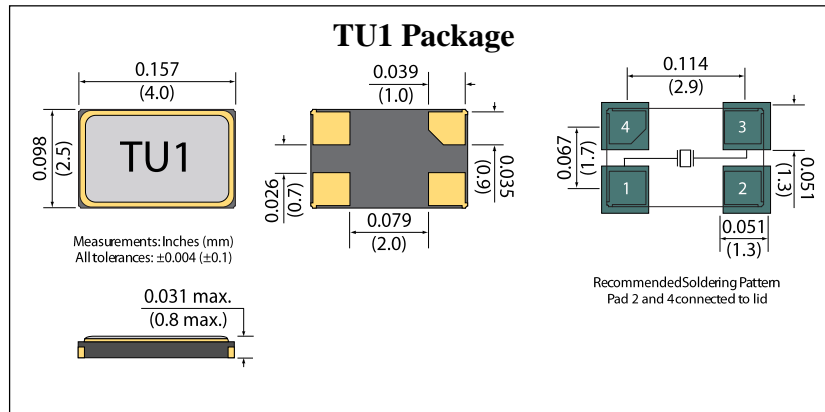
Parameter	Unit	Min.	Typ.	Max.
Frequency Range (FR)	MHz	12.000	-	50.000
Operating Temperature Range	°C	See Table		
Frequency Tolerance at 25°C	ppm	±10	-	±50
Frequency Stability	ppm	See Table		
Load Capacitance (C _L)	pF	6	-	Series
Shunt Capacitance (C ₀)	pF	-	-	7
Equivalent Series Resistance (R)	Ohms	See Table		
Drive Level	µW	10	-	100
Aging first year	ppm	-	-	±5.0
Insulation Resistance @ 100 V	M Ω	500	-	-
Storage Temperature Range	°C	-55	-	+125

Frequency (MHz)	ESR (Ohms) max.
Fundamental Mode	
12.000 to 20.000	80
>20.000 to 24.000	50
>24.00 to 50.000	40

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



[Click To Quote](#)

Example Part Number: TU1-D-E-16-18-25M576

TU1	1	2	3	4	5	
Tolerance	A = ±50	B = ±30	C = ±25	D = ±20	E = ±15	F = ±10
Stability	A = ±50	B = ±30	C = ±25	D = ±20	E = ±15	F = ±10
Temp. Range	16 = -10 to +60°C	27 = -20 to +70°C	48 = -40 to +85°C			
Load Cap.	AA = Series	xx = Load	i.e. 16, 24, 32			
Frequency	Frequency in MHz i.e. 25M456 use M for decimal point					

Note: Consult factory for additional potential options not listed.