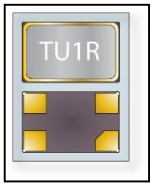
TELLURIAN TECHNOLOGIES, INC.

TU1R
Crystal Resonator



FEATURES:

Tight Tolerance — **Seam Sealed Lid**

High Reliability and Precision — **5.0 x 3.2 x 1.0 mm**

Parameter	Unit	Min.	Typ.	Max.
Frequency Range (FR)	MHz	80.00	-	400.00
Operating Temperature Range	°C	See Table		
Frequency Tolerance at 25°C	ppm	±10	-	±50
Frequency Stability	ppm	See Table		
Load Capacitance (C_L)	pF	Series	-	32
Shunt Capacitance (C_O)	pF	-	-	3
Equivalent Series Resistance (R)	Ω	See Table		
Insulation Resistance	M Ω	500 @ DC 100 V min.		
Drive Level	µW	-	10	300
Aging per year	ppm	-	-	±3.0
Storage Temperature Range	°C	-55	-	125

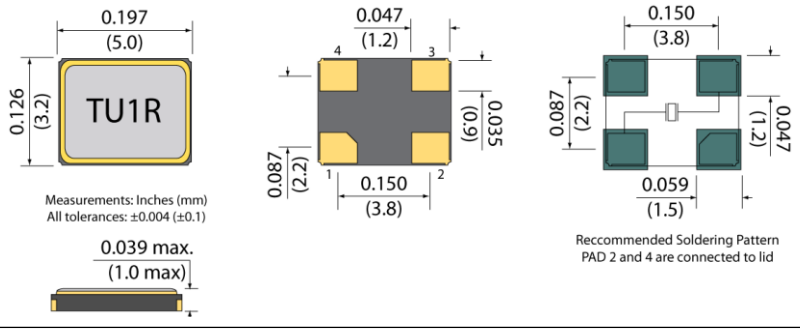
Frequency (MHz)	ESR (Ohms) max.
Fundamental Mode	
80.00 to 400.00	60

Temperature	Stability (ppm)
-10 to +60°C	±5, ±10, ±15, ±20, ±25, ±30, ±50
-20 to +70°C	±10, ±15, ±20, ±25, ±30, ±50
-40 to +85°C	±20, ±25, ±30, ±50
-40 to +105°C	±20, ±25, ±30, ±50
-40 to +125°C	±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

TU1R Package



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Example Part Number: TU1R-D-E-16-18-25M576

TU1R - [1] - [2] - [3] - [4] - [5]

1	2	3	4	5
Tolerance	**Stability**	**Temp. Range**	**Load Cap.**	**Frequency**
A = ±50	A = ±50	16 = -10 to +60°C	AA = Series	Frequency in MHz
B = ±30	B = ±30	27 = -20 to +70°C	xx = Load	i.e. 25M456
C = ±25	C = ±25	48 = -40 to +85°C		use M for decimal
D = ±20	D = ±20	4105 = -40 to +105°C	i.e. 16, 24, 32	point
E = ±15	E = ±15	4125 = -40 to 125°C		
F = ±10	F = ±10			
	G = ± 5			

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