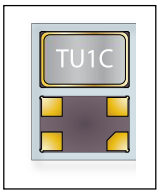
TELLURIAN TECHNOLOGIES, INC.

TU1C
Crystal Resonator



FEATURES:

Tight Tolerance
High Reliability and Precision
Seam Sealed Lid
3.2 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	-	32
Shunt Capacitance (C_O)	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	-40	-	+85

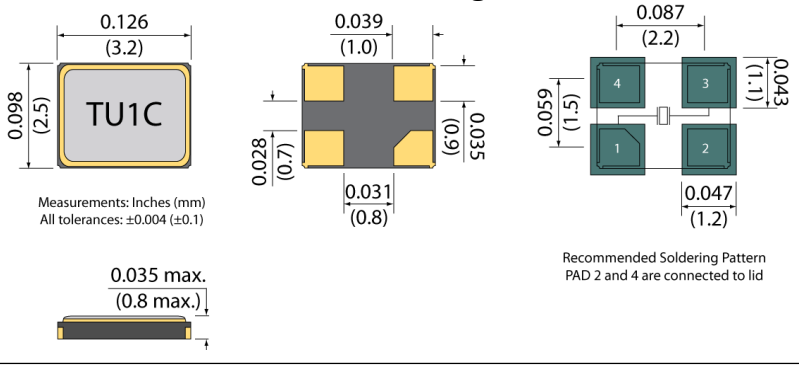
Frequency (MHz)	ESR (Ohms) max.
Fundamental Mode	
12.000 to 13.000	150
>13.000 to 16.000	100
>16.000 to 20.000	80
>20.000 to 30.000	60
>30.000 to 50.000	50

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

TU1C Package



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Example Part Number: TU1C-D-E-16-18-25M576

TU1C - [1] - [2] - [3] - [4] - [5]

1 Tolerance	2 Stability	3 Temp. Range	4 Load Cap.	5 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	i.e. 16, 24, 32	use M for decimal point
D = ±20	D = ±20			
E = ±15	E = ±15			
F = ±10	F = ±10			

Note: Consult factory for additional potential options not listed.

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Subject to change without notice