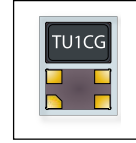


# TU1CG Crystal Resonator



**FEATURES:**

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

**Ceramic Lid**  
**3.2 x 2.5 x 0.98 mm**

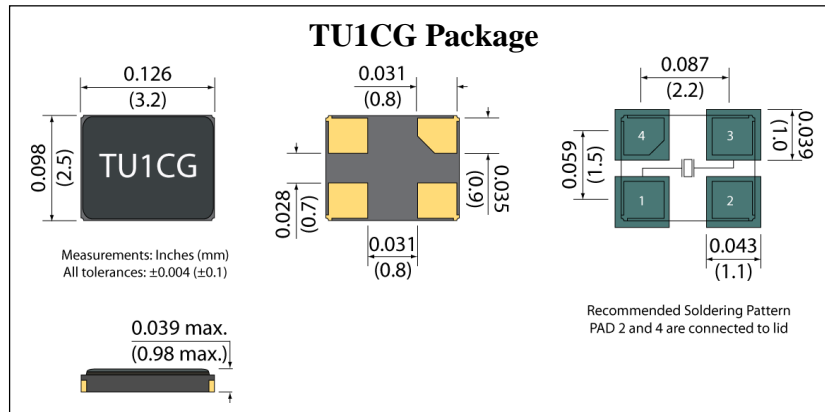
Parameter	Unit	Min.	Typ.	Max.
Frequency Range (FR)	MHz	12.000	-	48.000
Operating Temperature Range	°C	See Table		
Frequency Tolerance at 25°C	ppm	±10	-	±50
Frequency Stability	ppm	See Table		
Load Capacitance (C <sub>L</sub> )	pF	6	-	Series
Shunt Capacitance (C <sub>0</sub> )	pF	-	-	7
Equivalent Series Resistance (R)	Ohms	See Table		
Drive Level	µW	10	-	100
Aging first year	ppm	-	-	±5.0
Storage Temperature Range	°C	-40	-	+85

Frequency (MHz)	ERS (Ohms) max.
Fundamental Mode	
12.000 to 13.000	170
>13.000 to 19.500	100
>19.500 to 27.000	70
>27.000 to 48.000	60

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: TU1CG-D-E-16-18-25M576

TU1CG	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.