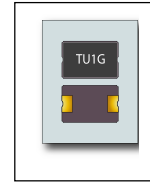


TU1G Crystal Resonator



FEATURES:

**Tight Tolerance
Ceramic Base**

**Glass Sealed Lid
5.0 x 3.2 x 1.45 mm**

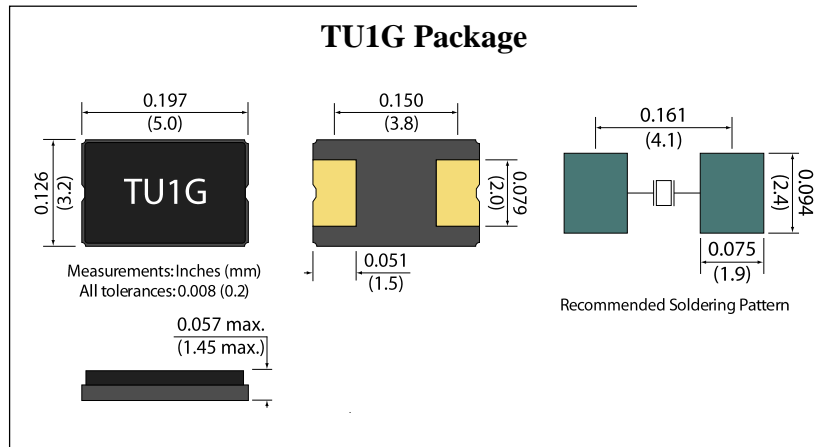
| Parameter | Unit | Min. | Typ. | Max. |
|-------------------------------------|------|-----------|------|--------|
| Frequency Range (FR) | MHz | 10.000 | - | 50.000 |
| Operating Temperature Range | °C | See Table | | |
| Frequency Tolerance at 25°C | ppm | ±10 | - | ±50 |
| Frequency Stability | ppm | See Table | | |
| Load Capacitance (C _L) | pF | 8 | - | 32 |
| Shunt Capacitance (C ₀) | pF | - | - | 7 |
| Equivalent Series Resistance (R) | Ohms | See Table | | |
| Drive Level | µW | 10 | - | 500 |
| 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 | |
| 10.000 to 16.000 | 150 |
| >16.000 to 20.000 | 100 |
| >20.000 to 30.000 | 70 |
| >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 |



Click To Quote

Example Part Number: TU1G-D-E-16-18-25M576

| | | | | | | | | | | |
|------------------|---|--------------------------------|------------------|--------------------------------|--------------------|--------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|
| TU1G | - | <input type="text" value="1"/> | - | <input type="text" value="2"/> | - | <input type="text" value="3"/> | - | <input type="text" value="4"/> | - | <input type="text" value="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 | | 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.