



TU4DS

RoHS Complaint Optional

## CRYSTAL UNITS

### TU4DS Series Crystal

#### Plastic, SMD

**Features:**

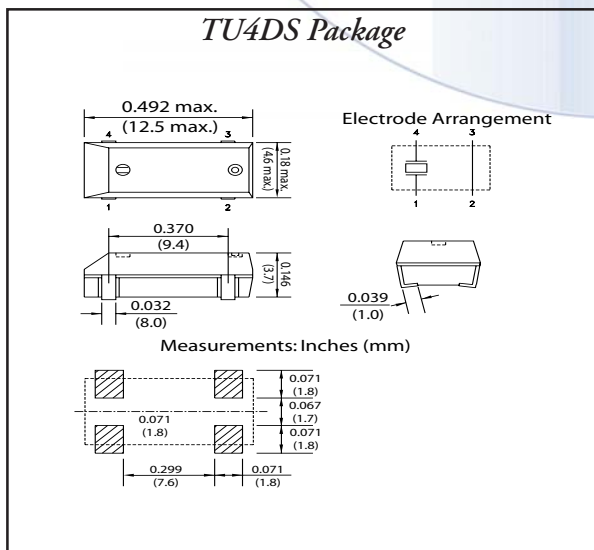
- ◆ Low Cost Plastic Alternative
- ◆ VP/IR solder re-flow compatible
- ◆ Hermetic Seal
- ◆ Compare to Citizen CM309s
- ◆ High Density Circuit Board Use
- ◆ Perfect for Telecom Equipment

**Model: TU4DS Specification**

|                              |                              |
|------------------------------|------------------------------|
| Frequency Range              | 3.579 ~27.00 MHz             |
| Frequency Tolerance          | ±15 to ±50 ppm               |
| Frequency Stability          | See Table                    |
| Operating Temp. Range        | See Table                    |
| Storage Temp. Range          | -55 to +155°C                |
| Load Capacitance             | Series, 16, 20, 30, or 32 pF |
| Shunt Capacitance            | 7pF max.                     |
| Mode of Vibration            | See Table                    |
| Equivalent Series Resistance | See Table                    |
| Drive Level                  | 100 μW Typical               |
| Aging                        | ±5 ppm / Year Max.           |

CRYSTAL: TU4DS Series Crystal

CRYSTAL: TU4DS Series Crystal

**TU4DS Package**

| Frequency (MHz) | Mode | ESR max. (Ω) |
|-----------------|------|--------------|
| Freq. to 4.99   | AT1  | 150          |
| 5.00 to 6.99    | AT1  | 120          |
| 7.00 to 9.99    | AT1  | 100          |
| 10.00 to 11.99  | AT1  | 80           |
| 12.00 to 13.99  | AT1  | 70           |
| 14.00 to 15.99  | AT1  | 50           |
| 16.00 to 27.00  | AT1  | 35           |

AT1= AT Cut, Fundamental

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

**Tellurian® Technologies, Inc.**

1801 Hicks Road • Rolling Meadows, IL 60008 • Tel 847-934-4141 • Fax 847-934-4175  
 • Email: info@telluriantech.com • www.telluriantech.com