



V6000

RoHS Compliant Standard

# VCXOs

## V6000 Series VCXO

### Ultra-Miniature, Low Profile, SMD

**Features:**

- ◆ Miniature Ultra Low Profile
- ◆ Ceramic SMD package
- ◆ Tape and Reel Available
- ◆ Compatible with pick and place
- ◆ HCMOS/ TTL compatible

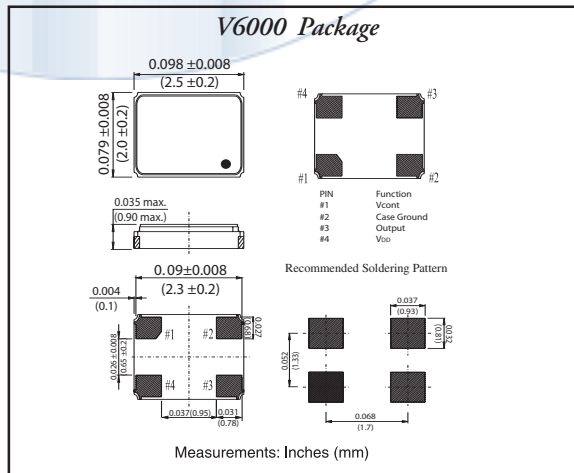
**Model: V6000 Series Specifications**

| Parameter                                       | Unit                                |                                     |     |         |
|---|-------------------------------------|-------------------------------------|-----|---------|
| Center Frequency                                | MHz                                 | 1.5 to 54.00 MHz                    |     |         |
| Operating Temperature Range                     | °C                                  | See Table                           |     |         |
| Frequency Stability <sup>(1)</sup>              | ppm                                 | See Table                           |     |         |
| Supply Voltage                                  | VDC                                 | 1.8                                 | 2.5 | 3.3 ±5% |
| Output Voltage                                  | $V_{OH} = 10\% V_{CC} \text{ max.}$ | $V_{OL} = 90\% V_{CC} \text{ min.}$ |     |         |
| Load  | pF                                  | 15 max.                             |     |         |
| Supply Current                                  | mA                                  | 3                                   | 5   | 5       |
| Frequency Deviation                             | ppm                                 | See Table                           |     |         |
| Transition Times                                |                                     |                                     |     |         |
| Rise/ Fall Time ( @ 10% - 90% V <sub>CC</sub> ) | ns                                  | 6 max.                              |     |         |
| Duty Cycle                                      | %                                   | 45/55                               |     |         |

(1) Inclusive of calibration @ 25°C, operating temperature, Input voltage change, load change, shock, and vibration. Tighter stabilities available- contact factory.

| Frequency Deviation |              |               |
|---------------------|--------------|---------------|
| 1.8V                | 2.5V         | 3.3V          |
| ±80 ppm min.        | ±90 ppm min. | ±100 ppm min. |
| +0.9 ±1.4V          | +1.4 ±1.4V   | +1.65 ±1.65V  |

| Temperature | Stability (ppm)     |
|-------------|---------------------|
| 0 to 50°C   | ±20, ±25, ±50, ±100 |
| -10 to 60°C | ±20, ±25, ±50, ±100 |
| -20 to 70°C | ±30, ±50, ±100      |
| -40 to 85°C | ±50, ±100           |



VCXOs: V6000 Series VCXO

VCXOs: V6000 Series VCXO

**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