

## Product Specifications

### TAN05RCSS

### Silver, 5 MHz RC Quartz Crystals



**Description:** Quartz sensor with enhanced high temperature resistance for use in Ulvac and Sloan instruments.

#### Physical Specification:

- 1) **Material:** Pure Silicon Dioxide monocrystal, Electronic Grade Quartz with Bechmann optimized Geometry and enhanced energy trapping of the fundamental mode.
- 2) **Dimensions:** 12.5 mm OD
- 3) **Contour:** plano convex
- 4) **Finish:** 7 microns rms roughness plano and contour sides
- 5) **Defects:** No chips, scratches or etch marks within a 12 mm diameter clear aperture
- 6) **Electrodes:** "Ulvac" patterned silver with Oxygen reactive intermediate layer for improved thin-film integrity.

#### Electrical Specification:

- 1) **Resonant Frequency:** 4.990-4.999 MHz, fundamental series resonance
- 2) **Resistance:** <40 Ohms, plated
- 3) **Contact Resistance:** <10 Ohms edge to edge on pattern side
- 4) **Spurious Modes:** First Anharmonic >150 KHz above fundamental

#### Appearance:

- 1) No misaligned electrodes
- 2) No uneven coloration
- 3) No off-center patterns
- 4) No scratches, scuffs, or etch markings present
- 5) No chips or cracks