Fil-Tech's has developed a Stress Relieving Alloy® crystal to facilitate the difficult process of deposition of dielectric and high stress materials. The Stress Relieving Alloy crystals are fabricated from the same raw crystal materialused for our gold and silver crystals. Fil-Tech Stress Relieving Alloy crystals are identical to our gold and silver except for the electrode coating. The following are the specifications for Stress Relieving Alloy crystals:

A) Physical Characteristics

1)Sensor material

2) Angle of Cut¹

3)Contour

4)Surface Roughness

5)Diameter

6)Electrode

B) Electrical Characteristics²

1) Resonant Frequency (MHz)

2) Resistance at Resonance

3)Contact Resistance

Fil-Tech QI8008
Single crystal Alpha Quartz
35° 15' (AT)
3 +/-0.5 diopter Plano-Convex
10 micron

0.550" (13.97 mm) Silver Aluminum Alloy/Chromium

> 5.975-5.993 <15 Ohms <15 Ohms

1. The true angle of cut varies as a function of the contour. The true angle for this configuration crystal is actually-35 degrees 16 minutes.

2. Fil-Tech values are actual quality assurance specifications. Fil-Tech 100% inspects all crystals using 10 electrical parameters and cosmetic criteria. A detailed histogram of Fil-Tech lot measurements is also available upon request.

Note: Fil-Tech believes that highlevel inspections are required to maintain the high quality crystal production demanded by our end users. In addition to the electrical and physical parameters listed above, Fil-Tech also measures motional capacitance and inductance, spurious resonance separation, and static capacitance to help track subtle changes in incoming quartz quality and in the production process.

Technical Bulletin No.8

Specifications for Fil-Tech QI8008 Stress Relieving Alloy Quartz Crystals

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