

Fil-Tech
Quality
Crystals
100% Testing
and
Inspection

Fil-Tech 100% tests and inspects all crystals to insure they are in accordance with our specifications. In order to insure our customer the finest Quality Crystals®, and insure long crystal life, Fil-Tech measures the following for each crystal. We use sophisticated test equipment to measure the electrical parameters and cosmetic criteria below. All tests are based on physical measurements - they are not derived.

Electrical Inspection:

1. Frequency;
2. Contact Resistance;
3. Activity - equivalent series resistance (ESR), which is a function of film adhesion and surface roughness;
4. Capacitance;
5. Inductance; and
6. Parallel Resonance Frequency.

Cosmetic Inspection:

1. Electrode pattern must be centered;
2. Electrode pattern must be clear of distortions;
3. Surface must be free of dust particles, fingerprints, metallic splatters, and other visible surface contamination;
4. Quartz must be free of twinning; and
5. Surface must be free of scratches, chips and markings.

Fil-Tech also employs a unique data logging system and lot number program that records the complete history of our deposition process. With this log, we can trace, via lot number, the deposition process on a real time basis for every crystal produced and shipped.

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