

Colnatec Premium AT-cut Quartz Crystals

The World's Most Advanced Film Thickness Sensors

Superior Replacement Quartz Crystals for Film Thickness Monitoring

Colnatec manufactures and stocks replacement quartz crystals for most commercially available film thickness monitors, called AT. These include 6 MHz, 14mm diameter crystals (for Inficon, Sycon, Sigma Instruments and Maxtek instruments); 5 MHz, 14mm diameter crystals (for Balzers instruments); 5 MHz, 12.5mm diameter crystals (for Ulvac and Sloan instruments), and the new 8.6mm diameter 6 MHz crystals for our revolutionary 24-crystal sensor head, Infinity™. We offer the standard electrode coatings as well: gold/chromium, silver/chromium and aluminum (or "alloy").

Our premium crystals are exact replacements for standard crystals with all of the above listed options, plus all the benefits of our rock solid guarantee and special packaging, but with these added features:

- Narrower frequency range
- Finer surface finish
- Narrower angle of cut
- Enhanced adhesion layer

The benefits to you of these improvements are:

- Improved noise reduction
- Higher precision thickness measurements
- Guaranteed performance
- Better temperature response (greater stability run to run)
- Consistently reliable measurements
- Longer crystal life

If you have or use:

Low Stress Coatings
 Medium Stress Coatings
 High Stress Coatings
 High Accuracy Requirements
 High Precision Run-to-Run Accuracy
 Metallizations & Organic Coatings (OLED)
 Medium Stress Metals & Optical Films
 Dielectrics, Refractory Metals, CIGS

Use Premium Crystals coated with (any type):

Gold
 Silver
 Alloy
 Gold, Silver or Alloy
 Gold, Silver or Alloy
 Gold
 Silver
 Alloy



Inficon™ Type AT Crystals

CNT06PIG: Gold
 CNT06PIA: Aluminum
 CNT06PIS: Silver

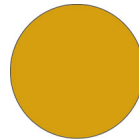
Frequency: 5.985-5.990 MHz
 Resistance: <15 Ohm
 Finish: 5 microns RMS
 Diameter: 14mm
 Contour: Plano-Convex
 Cut: AT cut +/-0.5'



Balzers™ Type AT Crystals

CNT05PBG: Gold
 CNT05PBA: Aluminum
 CNT05PBS: Silver

Frequency: 4.965-4.970 MHz
 Resistance: <15 Ohm
 Finish: 5 microns RMS
 Diameter: 14mm
 Contour: Plano-Convex
 Cut: AT cut +/-0.5'



Ulvac™ Type AT Crystals

CNT05PSG: Gold
 CNT05PSA: Aluminum
 CNT05PSS: Silver

Frequency: 4.990-4.995 MHz
 Resistance: <15 Ohm
 Finish: 5 microns RMS
 Diameter: 12.5mm
 Contour: Plano-Convex
 Cut: AT cut +/-0.5'



Colnatec™ Type AT Crystals

CNT86PCG: Gold
 CNT86PCA: Aluminum
 CNT86PCS: Silver

Frequency: 5.985-5.990 MHz
 Resistance: <15 Ohm
 Finish: 5 microns RMS
 Diameter: 8.6mm
 Contour: Plano-Convex
 Cut: AT cut +/-0.5'

All crystals packaged 10 pieces per disk

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