CMI165®

Copper thickness measurement with temperature compensation

Oxford Instruments CMI165 provides unique temperature compensated Copper thickness

measurements in an ergonomic

hand-held device

Measurements on Copper are affected by the temperature of the sample. The CMI165 accounts for temperature in the measurement of thickness ensuring accurate in-process inspection results regardless of Copper temperature. This versatile, portable gauge equipped with protective case, has a rugged and durable design that allows it to

- Measure hot or cold Cu on PCBs
- Reduce waste by eliminating the need for coupons
- Measure foil or laminated Cu thickness in µm, mils or oz

be taken into the harshest environments.

- Sort Cu by weight at incoming inspection, before drilling, shearing or plating
- Quantify Cu thickness after etching or planarizing
- Verify Cu plating thickness on PCB surfaces





The Business of Science®

Proprietary SRP-T1 measurement probe

- SRP-T1 Replaceable Probe Tip
 no recalibration necessary
- Spare SRP-T1 ensures no factory downtime
- Illuminated probe tip for easy positioning on copper traces







Specifications:

- Copper thickness is measured using 4-point probe electrical resistance method and conforms to standard EN 14571.
- Thickness measurement ranges
 - Copper Electroless: (0.25-12.7) μm, (0.01-0.5) mils
 - Copper Electrodeposited: (2.0-254) μm, (0.1-10) mils
- High repeatability and reliability: σ = 0.08 μ m at 20 μ m (0.003 mils at 0.79 mils)
- Statistical analysis includes data recording, average, standard deviation and high-low reporting
- Measurement units in μm, mils or oz

- User interface in English or Simplified Chinese
- Measure etched traces as thin as 204 μm (8mils) without line width standards
- Store 9,690 measurements (with optional date and time stamp)
- USB 2.0 high-speed data transfer interfaced with Microsoft Excel™
- Factory calibrated and certified
- Customisable for other applications
- Static or continuous mode measurement
- Powered by regular AA batteries

visit www.oxford-instruments.com for more information or email Industrial@oxinst.com

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