

EddyCus[®] map C2C – Automated Sheet Resistance Tester

P_2530C2C_21



Highlights

- ▶ Contact-free (process wafer monitoring)
- ▶ Fast (line scan with 300 points in 1 s)
- ▶ Repeatable and accurate
- ▶ High resolution (5 to 10,000) points
- ▶ Automated wafer handling
- ▶ Customized setups

Parameters

- ▶ Sheet resistance (Ohm/sq)
- ▶ Metal layer thickness (nm, μm)
- ▶ Conductivity / resistivity (mOhm·cm)
- ▶ Total thickness variation (μm)
- ▶ Permeability (H/m)
- ▶ Defect and integrity assessment

Applications

- ▶ Wafer characterization
- ▶ Implantation
- ▶ Doping
- ▶ Annealing / Tempering
- ▶ Deposition (PVD, CVD, plating ...)
- ▶ Etching
- ▶ Polishing
- ▶ (De)-oxidation
- ▶ Defect imaging
- ▶ Final inspection

Materials


- ▶ Semiconductors
 - ▶ Si
 - ▶ SiC
 - ▶ GaAs
 - ▶ GaN
 - ▶ ...
- ▶ Metal films
 - ▶ Al
 - ▶ Au
 - ▶ Ti
 - ▶ ...
- ▶ Other conductive films and materials

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Engineered and Made in Germany 





Measurement technology	Non-contact eddy current sensor, Capacitive or confocal sensor for TTV
Substrates	6 / 8 inch wafer
Cassettes	1
Edge effect correction / exclusion	2 – 10 mm (depending on size, range, setup and requirements)
Sheet resistance range	0.0001 – 100 Ohm/sq < 1 – 3 % accuracy 100 – 100,000 Ohm/sq < 1 – 5 % accuracy (6 decades with one sensor)
Total thickness measurement	10 – 100,000 μm (optional)
Thickness measurement of metal films (e.g. Aluminum, Copper)	2 nm – 2 mm (in accordance with sheet resistance)
Measurement patterns (line scan, mapping)	Pitch 1 / 2 / 5 / 10 / 20 / 50 mm Points 9 / 17 / 49 / 81 / 99 / 169 / 625 / / 10,000
Measurement time	Line scans in less than 1 second Multi point: 0.1 to 1 second per point
Safety variants	System protected by safety laser scanners Closed system
Device dimensions (w/d/h)	785 mm x 1,170 mm x 666 mm / 30.91" x 46.06" x 26.22"
Available features	Resistivity, metal thickness, total thickness variation sensor

Software and Handling – Sheet Resistance Analyzer 2.0

