

Data Sheet- EddyCus® TF map 2530 Series

P_T_2530_13



Highlights

- ▶ Contact-free imaging
- ▶ High resolution imaging (25 to 1,000,000 points)
- ▶ Defect imaging
- ▶ Mapping of encapsulated layers

Parameters

- ▶ Sheet resistance (Ohm/sq)
- ▶ Metal layer thickness (nm, μm)
- ▶ Metal substrate thickness (μm)
- ▶ Anisotropy
- ▶ Defects
- ▶ Integrity assessment

Applications

- ▶ Architectural glass (LowE)
- ▶ Touch screens and flat monitors
- ▶ OLED and LED applications
- ▶ Smart-glass applications
- ▶ Transparent antistatic foils
- ▶ Photovoltaics
- ▶ Semiconductors
- ▶ De-icing and heating applications
- ▶ Batteries and fuel cells
- ▶ Packaging materials

Materials

- ▶ Metal films and meshes
- ▶ Conductive oxides
- ▶ Nanowire films
- ▶ Graphene, CNT, Graphite
- ▶ Printed films
- ▶ Conductive polymers (PEDOT:PSS)
- ▶ Other conductive films and materials

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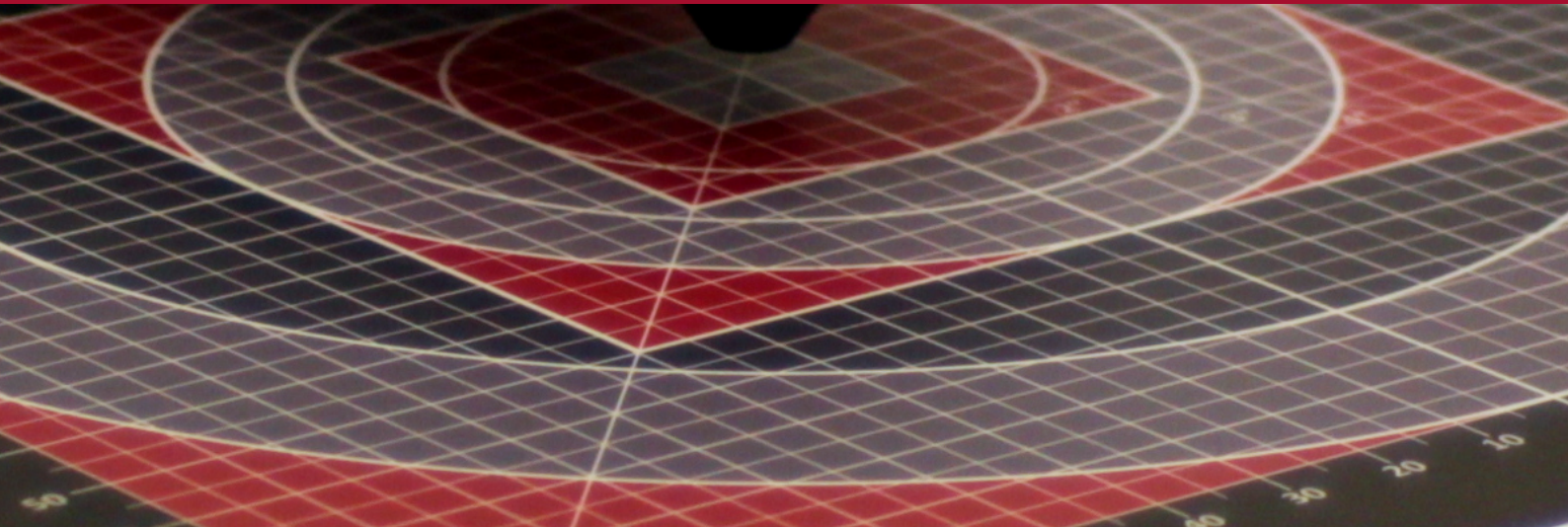
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Made and Engineered in Germany

Innovation Award by
Free State of Saxony 2013
1st Place





Measurement technology	Non-contact eddy current sensor
Substrates	E.g. Foils, glass, wafer, etc.
Max. scanning area	12 inch / 300 mm x 300 mm (larger on request)
Edge effect correction / exclusion	2 mm edge exclusion for standard sizes
Max. sample thickness / sensor gap	2 / 5 / 10 / 25 mm (defined by the thickest sample)
Sheet resistance range accuracy can be optimized over sheet resistance decade within a customer specified range	Low 0.0001 - 10 Ohm / sq; 2 to 8 % accuracy Standard 1 - 1,000 Ohm / sq; 2 to 8 % accuracy High 10 - 10,000 Ohm / sq; 4 to 8 % accuracy
Thickness measurement of metal films (e.g. Aluminum, Copper)	2 nm - 2 mm (in accordance with sheet resistance)
Scanning pitch	1 / 2 / 5 / 10 mm (other on request)
Measurement points per time (square shape)	10,000 measurement points in 5 minutes 1,000,000 measurement points in 30 minutes
Scanning time	4 inch / 100 mm x 100 mm in 0.5 to 5 minutes (1-10mm pitch) 8 inch / 200 mm x 200 mm in 1.5 to 15 minutes (1-10mm pitch)
Available features	Metal thickness imaging Anisotropy sheet resistance sensor

Software and Handling - Sheet Resistance Analyzer 2.0

