



4PP 2801

Sheet Resistivity



The industry leading 4 Dimensions 4 Point Probe Sheet Resistance System features unmatched accuracy and repeatability built on a Windows 7 platform. User Friendly "One-touch" operation and Auto-Calibration measures 50 sites in 90 seconds. Measure Resistivity and Thickness on a wide variety of materials.

Measurements range from $Im\Omega/sq$ to $800k\Omega/sq$, extending up to $8EII\Omega/sq$

Precision Resistivity Measurement

Powerful Windows-Based Software

- Data storage for millions of data sets
- · Librarian data searching program for quick and easy retrieval
- Individual site multiplier
- Site dependent geometric correction
- Detecting P-N type

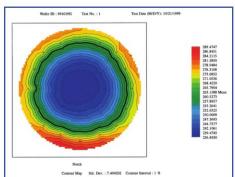
- Cartesian-Arrayed Mapping
- Polar Coordinated Mapping
- Diameter Scan
- Custom test sites
- Automatic thickness compensation
- Thin metal film corrections
- Personalized recipes

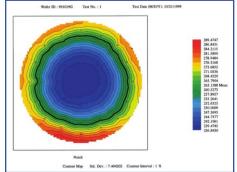
Applications

4 Dimensions' 4 Point Probe systems measure the sheet resistivity of a wide range of materials. The 280l system can easily measure resistivity in applications including:

- Silicon Substrates
- Epitaxial Layers
- SOI
- Ion Implant Dose & Uniformity
- Poly Resistivity & Thickness
- Metal Deposition Monitoring
- Silicide Process Monitoring
- Ion Implant Diffusion
- Poly Gate Process Monitoring

Test Date (M/D/Y) : 10/21/1999





ARIATEC COMPANY LIMITED

110 Cao Thang, District 3, Ho Chi Minh City

GST Reg. No.: 0314012479 Tel: (028) 73 085 568 Mail: info@ariatec.vn

website: www.ariatec.vn





4PP 2801





Specifications

Wafer Sizes 50, 75, 100, 125, 200mm
Test Diameter Up to 3mm from wafer edge

Quick-Checks 1, 5, 9 sites, 5, 6, 9, 10,

13 site ASTM/SEMI

X-patterns or custom sites

Cartesian Maps Any site-interval ≥0.1 mm,

Up to 6000 sites

Polar Map Sites 9, 25, 45, 49, 65, 81, 121, 169, 225, 289, 361,

441, 529, 625

Diameter Scans Any site interval to nearest mm Range Im /sq. to 800k /sq. or 8E9 /sq.

Units /sq., -cm,V/I, μ [T], Å[T]

Repeatability <0.2% (typical)

Accuracy <0.1% (precision resistor)

Current Resolution 16 Bit A/D Compliance Voltage 125V

Probes

Probe Spacing Imm (Standard)

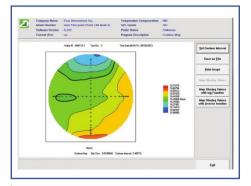
Probe Force Range 90g - 180g (Standard) others available

	Type	Tip Radius (μ)	Material	Application
l	Α	25	WC	Bulk, Thick Epi, Metals
l	В	100	WC	General
l	M	300	WC	Implant, Diffusion
l	Ν	500	WC	Shallow Implant, Thin Epi

Reliable and Easy to Maintain

- Capable of making measurements without a computer.
- Standard resistor network and firmware allowing easy and quick electronic calibration.
- Assembled with easily replaceable modules.
- Optional trouble shooting kits available for quick and easy on-site troubleshooting.
- Diagnostic program available for hardware and software.
- Low price, precision, durable probe head.





ARIATEC COMPANY LIMITED

110 Cao Thang, District 3, Ho Chi Minh City

GST Reg. No.: 0314012479 Tel: (028) 73 085 568 Mail: info@ariatec.vn

website : www.ariatec.vn