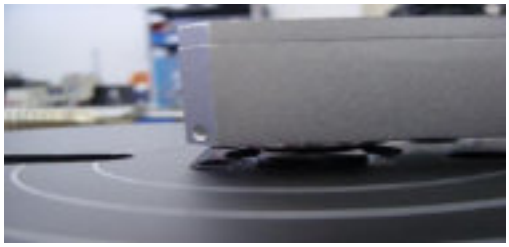
NAPSON CORPORATION

The Pioneer
for Sheet resistance/Resistivity
measurement

Model : EC-80

Non-Contact (Eddy Current method)
sheet resistance/resistivity measurement equipment
Manual type (1 point measurement type)







Simply measurement is realized put the samples on the stage.
You can measure the resistivity without any sample damage.

Features

- There is upper probe and lower probe in the measurement position on the stage.
- Easy measurement setting by JOG dial.
- Easy measurement mode change between sheet resistance and resistivity by JOG dial.
- Wide measurement range by using LOW/MIDDLE/HIGH/SUPER HIGH probes.
  ※EC-80 can mount one probe only.
- Probe core diameter: 14mmΦ
- Temperature correction
  (For silicon wafer)

Applications

・Wafer sample;
Silicon bare, Compound(GaN, GaP),
Epitaxial, Diffusion, SiC etc...
・Thin film layer;
Semiconductor process, Metal film,
ITO film etc...
・Others

*Generally, it will be able to measure the resistivity and sheet resistance in measurement range.

Sample size

2 ~ 8 inch or up to 156×156mm
Corresponding sample thickness is 300 ~ 800um

A global leading company for resistivity measurement system.





Measurement Range

* You need to choose a probe from below measurement range.

Probe Type	Measurement Range
(1) Low	0.01 - 0.5 ohm/sq (0.0005 - 0.025 ohm.cm)
(2) Middle	0.5 - 10 ohm/sq (0.025 – 0.5 ohm.cm)
(3) High	10 - 1000 ohm/sq (0.5 – 50 ohm.cm)
(4) Super High	1000 - 3000 ohm/sq (50 – 150 ohm.cm)

*Resistivity range for each probe type(ohm.cm) assumed thickness : 500μm.
* Resistivity is a reference value due to variations with sample thickness.

Measurement Repeatability

Measurement Range	%
Low, Middle	≦ 0.7 %
High	≦ 1.0 %
Super High	≦ 3.0 %

* Measurement Repeatability: CV = STDEVP/AVG×100%
(It is repeatly measured by 10 times on same position using NIST and VLSI standard wafers.)
* Above dates are based on the measurement of standard wafers before product shipment.

Dimensions & Utilities

< Dimensions > Main body: W220 × D325 × H210mm 6.5kg
< Utilities > AC100V±10%, 50/60Hz, 100VA

- Please contact us if you want more details.
- We can correspond the demo measurement by your samples if you want it.
- The specification subject to change without any notice.

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