

Capacitance Method, Flat Plate, Liquid, Gel, Ultra Thin Film, Compound Film, Permittivity and Dielectric Loss Tangent Measurement System

System No. DPS17

Keysight Technologies and
KEYCOM Corp.

Ideal solution for ϵ' / $\tan\delta$ measurement of sheet,
thin film, multi-layer thin film, liquid and gel

《ASTM, JIS Standard compliant》

KEYCOM offers variety of highly accurate measurement systems for dielectric constant and dielectric loss tangent measurement of flat plane, liquid, or gel. Temperature characteristics measurement options between -70°C and $+30^{\circ}\text{C}$ are also available. Your Windows PC with the software controls your E4980A Precision LCR Meter and thermostat/humidistat chamber, automating time-consuming temperature/humidity characteristics measurements.

Compliance standards

ASTM D-150, JIS C2101, JIS C2141, JIS K6911, JIS C 2111 28.1.2 (B)

Applications

- Material property evaluation for electronic components
- Semiconductor property evaluation
- Material deterioration evaluation
- Chemical property evaluation

Specimen examples

- PCB(Prepreg)
- Semiconductor wafer
- Pure Water
- Fruit



E4980A Precision LCR Meter and
DPT-009 for sheet, liquid, gel

Specifications

(when used with E4980A)

Frequency: 20Hz ~ 2MHz

Permittivity: 1.05 ~ 1000

$\tan\delta$: 0.0005-10@1MHz

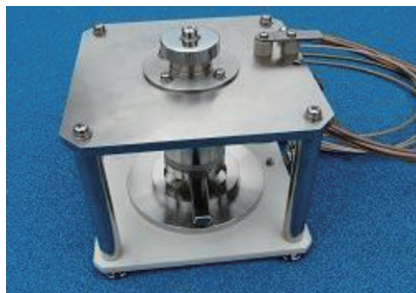
Features

- Measurement example
Specimen : Glass epoxy board
Frequency : 1MHz
Result : Permittivity $4.69 \pm 2\%$
 $\tan\delta$ $0.0227 \pm 2\%$
- DPT-009 : allows you to measure samples of approx. $100\mu\text{m} \sim 2\text{mm}$ in thickness simply and easily, without your having to pasting or sputtering electrodes to the sample.
- DPT-2141: allows you to measure approx. $50\mu\text{m} \sim 2\text{mm}$ in thickness in conformity to the JIS Standard.
- Supports temperature characteristics measurement between -70°C and $+300^{\circ}\text{C}$.
- Automatic measurement by PC.

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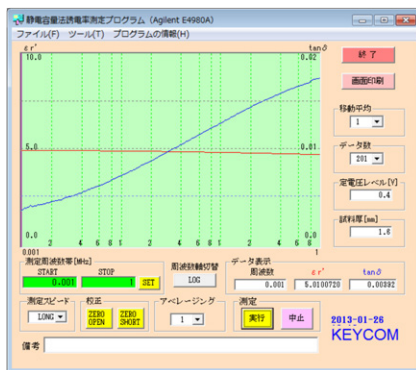
DPT-080 for sheet



DPT-2141 for sheet, plate (JIS-C2141 compliant)



DPT-013 for liquid, powder



Measurement window

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Extending our solutions to meet your needs

Ordering Information

Keysight Technologies
E4980A Precision LCR Meter



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1. Measurement electrode	20Hz - 1kHz DPT-080 100Hz - 2MHz DPT-009 100Hz - 2MHz DPT-013-050(for 50cc)、-200(for 200cc) 100Hz - 1MHz DPT-2141
2. Software	DMP-002040705-05
3. Windows PC, Printer	Available upon request
4. GPIB interface	GP-01

Product specifications and descriptions in this document subject to change without notice.

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at:

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