

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

System No. DPS17

Agilent Technologies and KEYCOM Corp.



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

Specifications

(when used with E4980A)

Frequency : 20Hz ~ 2MHz

Permittivity : 1.05 ~ 1000

(Accuracy : ±3%)

$\tan \delta$: 0.001~0.1

(Accuracy : ±5%)

Measurement Process

1. Connect coaxial cables of the electrode to your E4980A.
2. Bring the high and low electrodes at the end of the coaxial cables into contact with each other to execute short calibration, and separate the two to execute open calibration.
3. Insert specimen between electrodes and start measurement.

Ideal solution for ϵ_r' / $\tan\delta$ 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°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

Features

- DPT-009 : allows you to measure samples of approx. 50µm ~ 2mm in thickness simply and easily, without your having to pasting or sputtering electrodes to the sample.
- DPT-2141: allows you to measure approx. 50µm ~ 2mm in thickness in conformity to the JIS Standard.
- Supports temperature characteristics measurement between -70°C and +300°C.
- Automatic measurement by PC.

Applications

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

Specimen examples

- Prepreg
- Semiconductor wafer
- Thin film on wafer
- PCB
- Grease
- Water
- Fruit

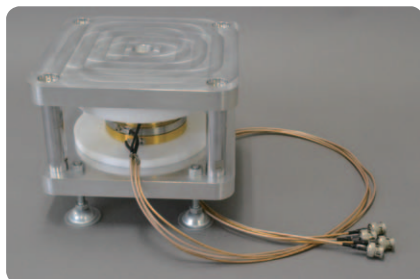
KEYCOM
Characteristic Technologies

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Solutions Partner

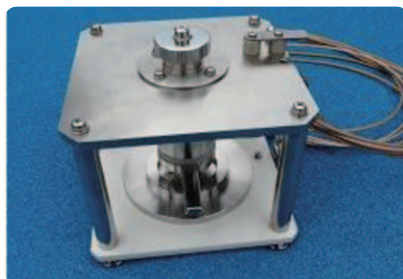
Anticipate — Accelerate — Achieve

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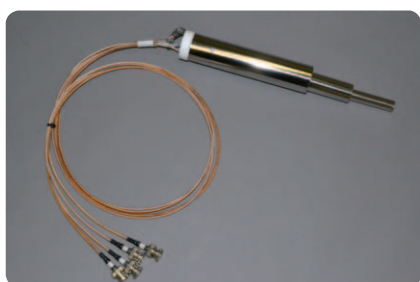
Capacitance Method, Dielectric Constant and Dielectric Loss Tangent Measurement System



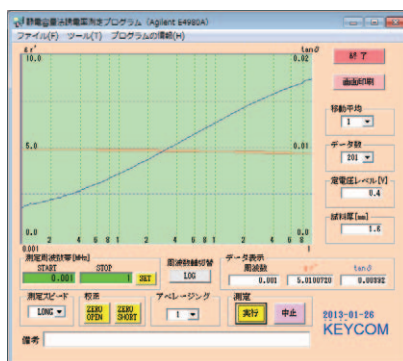
DPT-080 for sheet



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



DPT-013 for liquid, powder



Measurement window

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KEYCOM Corp.

3-40-2 Minamiotsuka Toshima-ku, Tokyo
170-0005 Japan
Phone: +81-3-5950-3101
FAX: +81-3-5950-3380

KEYCOM USA Corp.

533 Airport Blvd. Suite 400 Burlingame,
CA 94010 USA
Phone: +1-650-685-2477
FAX: +1-650-373-2002

www.agilent.com

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Ordering Information

Agilent Technologies

E4980A Precision LCR Meter

KEYCOM Corp.

System No. DPS17

1. Measurement electrode
 - 20Hz – 1kHz DPT-080
 - 100Hz – 2MHz DPT-009
 - 1kHz – 100kHz DPT-012
 - 100Hz – 2MHz DPT-013-050 (for 50cc)、-200 (for 200cc)
 - 1kHz – 1MHz DPT-2141
2. Software DMP-00204070505-05
3. Windows PC, Printer Available upon request
4. GPIB interface GP-01

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



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