

World Leading High-Accurate Dk/Df Measurement System, PCB Measurement, 900MHz - 15GHz

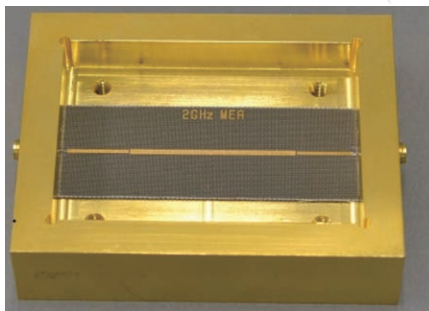
System No. DPS50

Keysight Technologies and KEYCOM Corp.

Highly accurate in dielectric loss tangent ($\tan \delta$) measurement and requires no conductor pattern; Optimum solution for thin film measurement

《ASTM, IPC Standard compliant》

DPS50 is a resonance method, strip line type dielectric constant and dielectric loss tangent measurement system optimized for sheet materials with dielectric constant of approximately 1 to 20 and relatively small dielectric loss in the frequency range of 900MHz to 15GHz. This system is compliant with the IPC-TM-650 2. 5. 5. 5. 1 Stripline Test for Complex Relative Permittivity of Circuit Board Materials to 14GHz, and ASTM D3380 Standard Method of Test for Permittivity (Dielectric Constant) and Dissipation Factor of Plastic-Based Microwave Circuit Substrates. This measurement technique was announced at 2008 IEEE I2MTC.



Compliance standards

IPC-TM-650, ASTM 3380

Publications

Suzuki, H. ; Hotchi, T. ; Nojima, T.
 "A New Measurement System for the Perpendicular Complex Permittivity to DUT Sheet by Stripline Simulation"
 Instrumentation and Measurement, IEEE Transactions on (Volume:61, Issue: 9)
 pp2476 - 2482 Date of Publication: Sept. 2012

Specimen examples

— PCB (Prepreg) — Planar antenna — Film

Specifications

Frequency : 900MHz ~ 15GHz

Permittivity : 1.05 ~ 20
 (Accuracy : $\pm 5\%$,
 depending on VNA)

$\tan \delta$: 0.001 ~ 0.05
 (Accuracy : $\pm 10\%$ or
 ± 0.0005 , depending on
 VNA)

Sample size :

R-09.B	900MHz	30mm × 150mm
R-1B	1GHz	30mm × 150mm
R-2B	2GHz	30mm × 80mm
R-5B	5GHz	30mm × 80mm
R-10B	10GHz	30mm × 30mm
R-15B	15GHz	30mm × 30mm

Sample thickness :

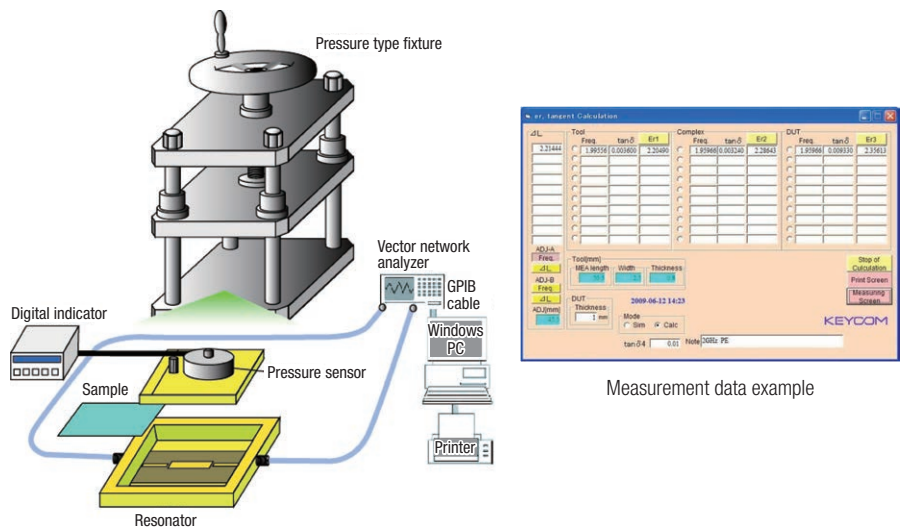
50 μ m ~ 2mm (≤ 2 mm @ 1GHz,
 ≤ 0.5 mm @ 10GHz)

Features

- Eliminates fringing effect
- No conductor pattern is required
- Capable of measuring in a perpendicular electric field to the sample sheet

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Configurations



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Characteristic Technologies

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Keysight & Solutions Partners
Extending our solutions to meet your needs

Ordering Information

Keysight Technologies



Vector network analyzer
PNA series (N52xx)
ENA series (E50xx)



Keysight Streamline Series
USB Vector Network Analyzers
(P937xA, P500xA)



E-band
network analyzer system
N5252A

KEYCOM Corp.

System No. DPS50

1. Pressure type fixture	FS-03
2. Resonator (measurement + calibration + fixture)	900MHz..... R-0.9B 1GHz..... R-1B 2GHz..... R-2B 5GHz..... R-5B 10GHz..... R-10B 15GHz..... R-15B
3. Software	DMP-61M
4. Coaxial cable	CM06D-APC2.9(m)APC2.9(m)-500 2pc.
5. Windows PC, Printer	Available upon request
6. GPIB interface	GP-01

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

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