World Leading High-Accurate Measurement System for Radio Wave Absorption Rate and Return loss, 2.6GHz - 140GHz  Inlining, XY stage compatible, PLC compatible, etc.

System No. EAS03

Keysight Technologies and KEYCOM Corp.

Ideal solutions for developing and manufacturing electric wave absorbers and meta-materials
(Option: Transmission Attenuation Measurement)

《JIS, IEC Standard》
Despite their compact dimensions, EAS03 delivers highly accurate measurement by plane wave because the lenses are attached to the antennas. Samples can be smaller than before because they can be placed in the vicinity of the antennas. Transportable type is available for heavy or immovable objects such as concrete wall or asphalt road. Transmission attenuation measurement option is also available.

Publications
H.Suzuki, Others
“Free space measurement method with parallel electromagnetic wave beam by using dielectric lenses and horn antennas for reflectivity of electromagnetic absorbers in millimeter waves” IEICE Trans, electro., Vol. E89-C, No.1 Jan.(2006) 24-29

Standardization
JIS R1679 : 2007 (Japanese Industrial Standards)
IEC 62431 : 2008 (International Electrotechnical Commission)

Specifications
Measurement frequency :
LAF-2.6A : 2.6-26.5GHz
LAF-26.5A : 18-325GHz
Specimen size:
LAF-2.6A : larger than 450\(\times\)450mm
LAF-26.5A : larger than 100\(\times\)100mm
Angle of incidence (Half-width)
LAF-2.6A :
Minimum : \(< 0^\circ\)
Maximum : \(< 80^\circ\)
(\(< 90^\circ\)ver. available)
LAF-26.5A :
Minimum : \(< 0^\circ\)
Maximum : \(< 90^\circ\)
Main body size :
LAF-2.6A :
Height 1700mm
Weight 250kg
LAF-26.5A :
Height 870mm
Weight 40kg

Features
- The plane wave has synchronized phases to the sample surface.
- The parallel beam does not have unnecessary radio wave incidence to the lens.
- An anechoic chamber is not necessary.
- The dynamic range is wide with 50 dB or more with gating, and 40 dB without gating.
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Ordering Information

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www.keysight.com/find/contactus

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