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, electrio., 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 450×450mm
- LAF-26.5A : larger than 100×100mm

Angle of incidence (Half-width)
- LAF-2.6A :
  - Minimum : ≤0°
  - Maximum : ≤80°
  - (≤90° ver. available)
- LAF-26.5A :
  - Minimum : ≤0°
  - Maximum : ≤90°

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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Transportable type: System No. EAS12
(for heavy or immovable electric wave absorber, such as concrete wall or asphalt road.)

Ordering Information

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<th>Keysight Technologies</th>
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<tr>
<td>Vector network analyzer</td>
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<tr>
<td>PNA series (N52xx)</td>
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<td>ENA series (E50xx)</td>
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<td>Keysight Streamline Series</td>
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<td>USB Vector Network Analyzers (P937xA, P500xA)</td>
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<td>E-band network analyzer system</td>
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<td>N5252A</td>
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KEYCOM Corp.
System No. EAS03
1. Main Body (Lens, Lens fixed frame, Antenna fixed stand, Metallic board for calibration)
   - 2.6-26.5GHz .............................................................. LAF-2.6A
   - 18-325GHz .............................................................. LAF-26.5A

Antenna (with coaxial waveguide converter)
- 2.60-3.95GHz (WR-284) ........................................... RH284S14SMA(f)/7
- 3.95-5.85GHz (WR-187) ........................................... RH187S16SMA(f)/7
- 4.90-7.05GHz (WR-159) ........................................... RH159S17SMA(f)/7
- 5.85-8.2GHz (WR-137) ............................................. RH137S18SMA(f)/7
- 8.2-12.4GHz (WR-90) .............................................. RH90S19SMA(f)/7
- 12.4-18GHz (WR-62) .............................................. RH62S22SMA(f)/7
- 18-26.5GHz (WR-42) .............................................. RH28S23APC2.9(f)/7
- 26.5-40GHz (WR-28) .............................................. RH90S23APC2.9(f)/7
- 33-50GHz (WR-22) .............................................. RH90S23APC2.9(f)/7
- 50-75GHz (WR-15) ................................................... RH15S10
- 75-110GHz (WR-10) ................................................ RH10S10
- 110-170GHz (WR-6) ................................................ RH6S10
- 170-260GHz (WR-4) ................................................ RH4S10
- 220-325GHz (WR-3) ................................................ RH3S10

3. Software ................................................................. DMP-20
4. Cable ........................................................................... CM06x-xx-1000
5. GPIB cable ................................................................. GP-01
6. Windows PC, Printer .................................................. Available upon request

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

Learn more at: www.keysight.com

For more information on Keysight Technologies’ products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus