

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

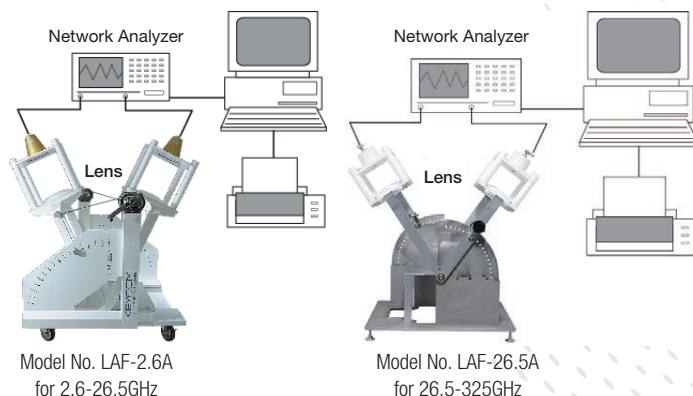
H.Suzuki, Others

"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 450×450mm

LAF-26.5A : larger than 100×100mm

Angle of incidence (Half-width)

LAF-2.6A :

Minimum : $\angle 0^\circ$

Maximum : $\angle 80^\circ$

($\angle 90^\circ$ ver. available)

LAF-26.5A :

Minimum : $\angle 0^\circ$

Maximum : $\angle 90^\circ$

Main body size :

LAF-2.6A :

Height 1700mm

Weight 250kg

LAF-26.5A :

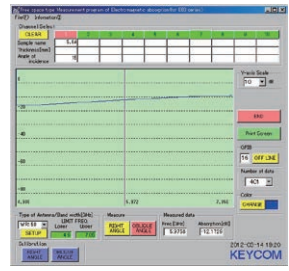
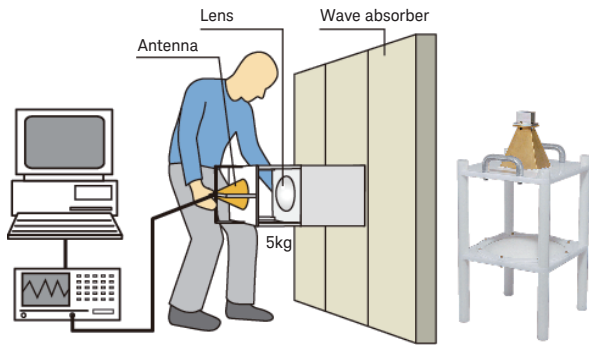
Height 870mm

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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Data sample

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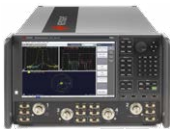
Keysight & Solutions Partners
 Extending our solutions to meet your needs

Transportable type: System No.EAS12

(for heavy or immovable electric wave absorber, such as concrete wall or asphalt road.)

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. 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)RH42S23APC2.9(f)7
	26.5-40GHz(WR-28)RH28S23APC2.9(f)7
	33-50GHz(WR-22)RH22R23APC2.4(f)7
Antenna (with waveguide)	50-75GHz (WR-15)RH15S10
	75-110GHz (WR-10)RH10S10
	110-170GHz (WR-6)RH06S10
	170-260GHz (WR-4)RH04S10
	220-325GHz (WR-3)RH03S10
3. SoftwareDMP-20
4. CableCM06x-xx-1000
5. GPIB cableGP-01
6. Windows PC, Printer	Available upon request

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

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 please contact your local Keysight office. The complete list is available at:
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