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

Reasons for high accuracy:
- Its plane wave is in phase on sample face.
- Its parallel beam prevents interferences of unnecessary electric wave.
- No anechoic chamber is required.
- Wide dynamic range, more than 50dB with gating and 40dB without.

Specifications

<table>
<thead>
<tr>
<th>Measurement frequency:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAF-2.6A: 2.6-26.5GHz</td>
</tr>
<tr>
<td>LAF-26.5A: 26.5-110GHz</td>
</tr>
<tr>
<td>Specimen size:</td>
</tr>
<tr>
<td>LAF-2.6A: larger than 450×450mm</td>
</tr>
<tr>
<td>LAF-26.5A: larger than 100×100mm</td>
</tr>
<tr>
<td>Angle of incidence (Half-width)</td>
</tr>
<tr>
<td>LAF-2.6A: Minimum : ∠90°, Maximum : ∠80° (∠90° ver. available)</td>
</tr>
<tr>
<td>LAF-26.5A: Minimum : ∠0°, Maximum : ∠90°</td>
</tr>
<tr>
<td>Main body size:</td>
</tr>
<tr>
<td>LAF-2.6A: Height 2.1m, Weight 150kg</td>
</tr>
<tr>
<td>LAF-26.5A: Height 400mm, Weight 15kg</td>
</tr>
</tbody>
</table>

Measurement Process

1. Set a frequency range and the number of frequency steps.
2. Calibrate your analyzer at the end of the cable which will connect to the antenna
3. Perform a zero calibration with a metallic plate of the same size as your specimen
4. Replace the metal plate with your specimen at and start measurement

Publications

H. Suzuki, Others
Electric Wave Absorber (Material), Return Loss Measurement System
Lens Antenna Method, Diagonal Incidence type

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

Ordering Information
Keysight Technologies, Inc.
Vector network analyzer
- PNA series (N52xx) – ENA series (E50xx)

KEYCOM Corp.
System No. EAS03(2.6~26.5GHz), EAS05(26.5~110GHz)
1. Main Body
   (Lens, Lens fixed frame, Antenna fixed stand, Metallic board for calibration)
   2.6~26.5GHz .......................................................... LAF-2.6A
   26.5~110GHz .......................................................... LAF-26.5A

2. Antenna
   For LAF-2.6A:
   75-110GHz (WR-10) (waveguide type) ........................................ RH10R23
   50-75GHz (WR-15) (waveguide type) ....................................... RH15R23
   33-50GHz (WR-22) (waveguide type) ..................................... RH22R23
   26.5-40GHz (WR-28) (waveguide type) ................................. RH28R23
   33-50GHz (WR-22) (coaxial waveguide converter) ................ RH22R23APC2.4(f)7
   26.5-40GHz (WR-28) (coaxial waveguide converter) .............. RH28S23SMA(f)7

   For LAF-2.6A:
   18-26.5GHz (WR-42) (coaxial waveguide converter) ............... RH42S23SMA(f)7
   12.4-18GHz (WR-62) (coaxial waveguide converter) ............. RH62S22SMA(f)7
   8.2-12.4GHz (WR-90) (coaxial waveguide converter) ............ RH90S19SMA(f)7
   5.85-8.2GHz (WR-137) (coaxial waveguide converter) ......... RH137S18SMA(f)7
   4.90-7.05GHz (WR-159) (coaxial waveguide converter) ........ RH159S17SMA(f)7
   3.95-5.85GHz (WR-187) (coaxial waveguide converter) ...... RH187S16SMA(f)7
   2.60-3.95GHz (WR-284) (coaxial waveguide converter) ..... RH284S14SMA(f)7
   1.70-2.60GHz (WR-430) (coaxial waveguide converter) ....... RH430S14SMA(f)7

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

www.keycom.co.jp
For more information on KEYCOM Corp. products, applications or services, please visit our website at www.keycom.co.jp or e-mail us at E-mail: Info@keycom.co.jp

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

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

This information is subject to change without notice.
© Keysight Technologies 2012 - 2014
Published in Japan, August 2, 2014
5991-1215EN
D000-08MS
www.keysight.com