🖌 EM labs

Ideal for mmWave DkDf characterization !

Fabry-Perot resonator for permittivity measurement FP Series 25 – 330 GHz



- Ideal for low-loss materials with tan δ of 0.01 or less
- Fast sweep measurements with 2.5 GHz step: only 4 sec/point
- Easy to install: Normal lab environment is sufficient

Remarkably simple and repeatable even at 330 GHz

The FP Series is a breakthrough product that allows for easy and accurate evaluation of low-loss dielectric materials up to 330 GHz. Traditionally, the Fabry-Perot resonator has been considered a specialized instrument for a few specialists, but EM Labs has developed a solution that defies conventional wisdom by focusing on ease of use and repeatability in real-world applications.



Test example : COP (186µm) @ 25 -330 GHz

Configuration Example

- Keysight PNA mmWave test system (110 GHz)
- Permittivity measurement software for Fabry-Perot

N5290A FP-MA FP-BB

- Fabry-Perot Resonator Broad band (25 110 GHz)
- 1 mm test cables
- Windows PC
- Product Line-up Model Description Res Mode Q factor Connectors FP-BB Fabry-Perot Resonator broad band (25-110 GHz) 1 mm(f)FP-E E-band (60-90 GHz) WR12 Fabry-Perot Resonator FP-W Fabry-Perot Resonator W-band (75-110 GHz) WR10 >100,000 TEM FP-D Fabry-Perot Resonator D-band (110-170 GHz) WR 6.5 G-band (140-220 GHz) FP-G Fabry-Perot Resonator WR 5 1 FP-J Fabry-Perot Resonator J-band (220-330 GHz) WR 3.4

Sample size

* More about sample size https://www.emlabs.jp/en/1-9-sampleprep.php



FP-BB: 70 x 70 mm

others: 50 x 50 mm

Contact mail:info@emlabs.jp website:www.emlabs.jp