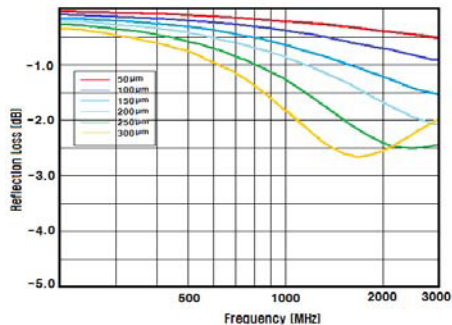
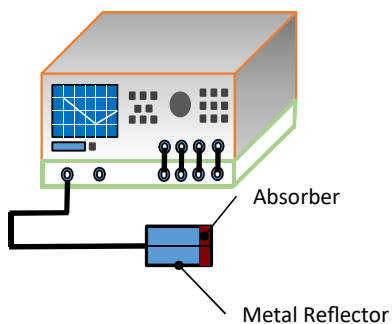


■ Measuring the Reflection Loss and the Permeability of Absorbing Materials

◆ Reflection Loss



NETWORK ANALYZER



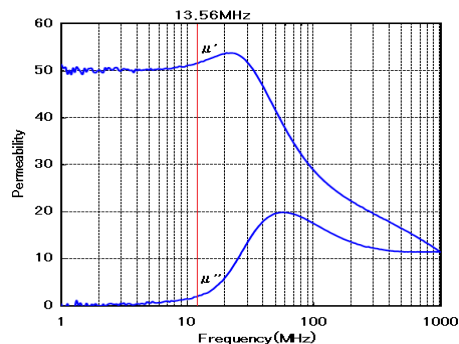
● Reflection Loss [dB]

$$= 20 \log |Z_{ref} / Z_{in}|$$

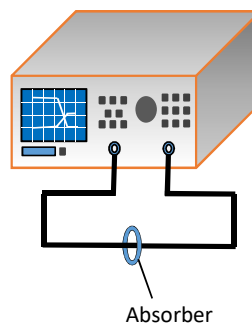
$$= 10 \log |P_{ref} / P_{in}|$$



◆ Permeability



IMPEDANCE ANALYZER



● Euler Equation

$$\mu = \frac{M_0 e^{i(\omega t - \sigma)}}{H_0 e^{i\omega t}} = \left[\frac{M_0}{H_0} \right] e^{-i\sigma}$$

$$= \left[\frac{M_0}{H_0} \right] \cos \delta - i \left[\frac{M_0}{H_0} \right] \sin \delta$$

$$= \mu' - i\mu''$$

