

ER20009E



## Strong interaction between light and electrons (4) "Transmission ESR/FMR measurement method"

## Product used : Electron spin resonance spectrometer (ESR)

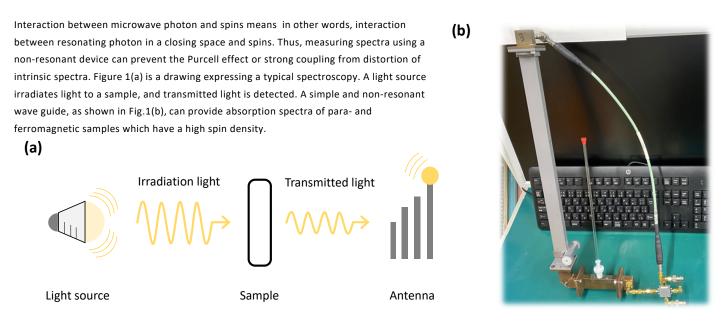


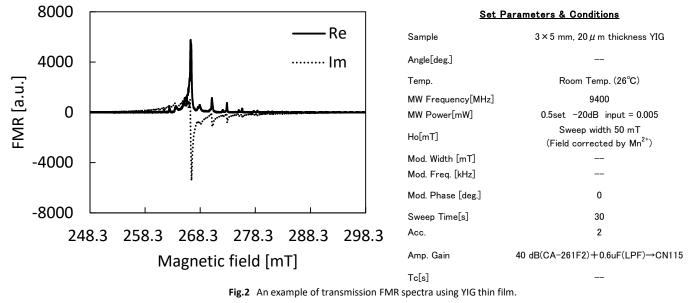
Fig.1 (a) A drawing of transmit absorption measurement. (b) An example of transmission ESR/FMR measuring device using a wave guide.

## **Transmission FMR spectrum**

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Spectra in Fig.2 are an FMR spectra of YIG-thin film (20µm thickness, conf. Application Note ER200008E) using a detection device as shown in Fig.1(b). Merits of this method are that tuning of the filling factor and magnetic modulation are not necessary. Furthermore, dependence of FMR spectra on the frequencies is easily obtained. Application Note ER200010 will explain it more.



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