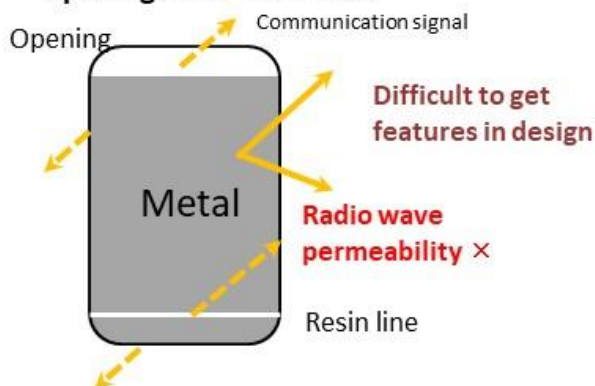
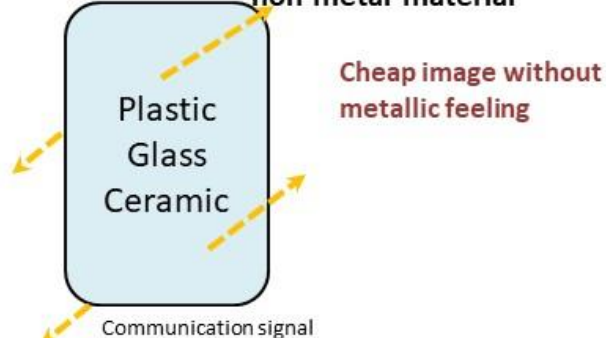


Conventional

- Secure communication through openings and resin lines

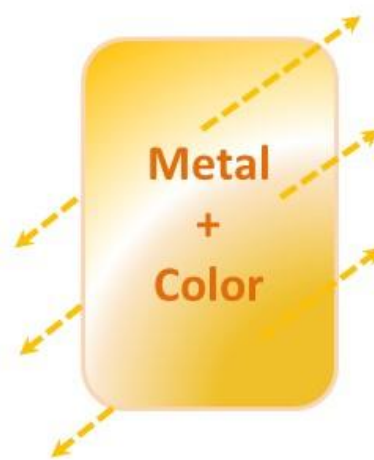


- Secure communication using non-metal material



Proposal

- Use radio wave transparent metal color film

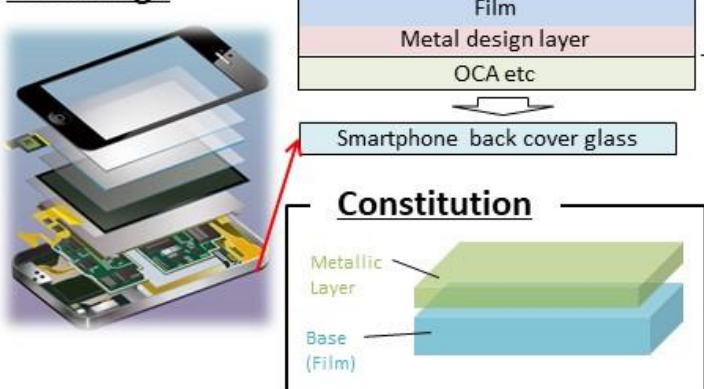


- Ensure radio wave transmission across the entire surface
- Add "color" on metallic surface

Possible to design with both functionality and design

Electromagnetic Wave Transmission Film

Use image

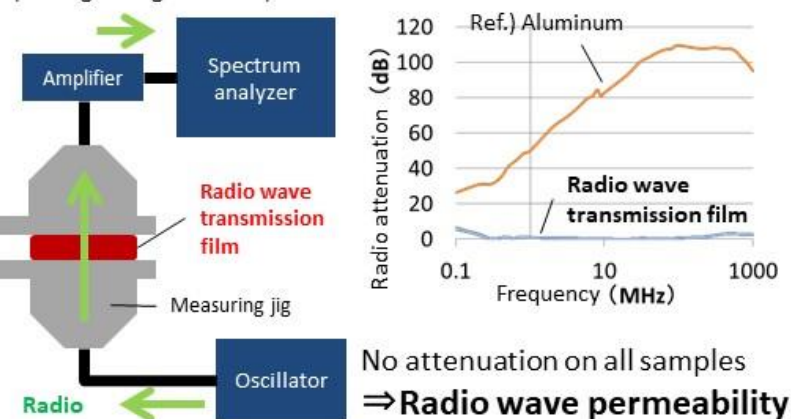


Appearance



Radio wave permeability

KEC method: Measures the attenuation of radio waves before and after passing through the sample



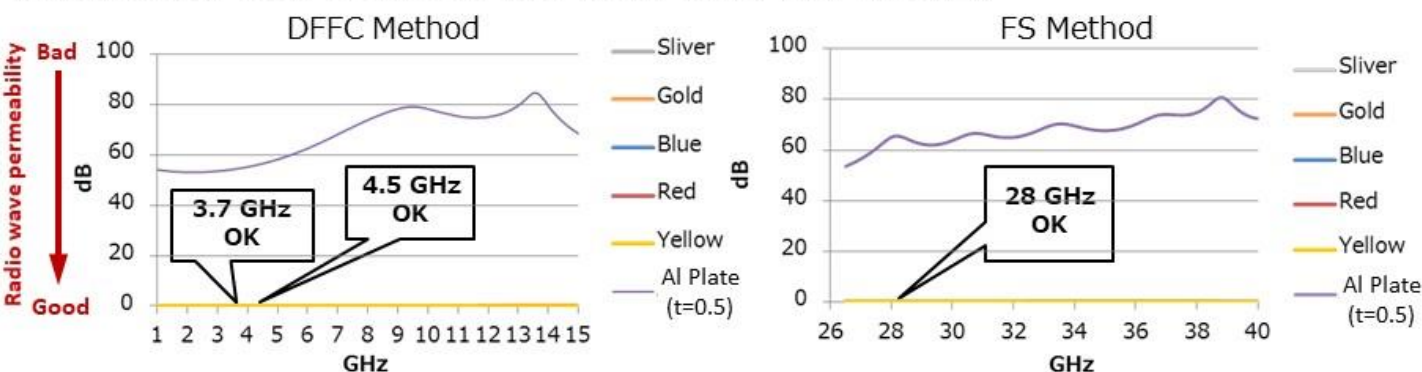
Reflection color

Measured with a spectrophotometer ※Reference value

	yellow	red	blue	gold	silver
L*	76	52	37	62	89
a*	5	27	-5	19	-1
b*	35	25	-36	49	3

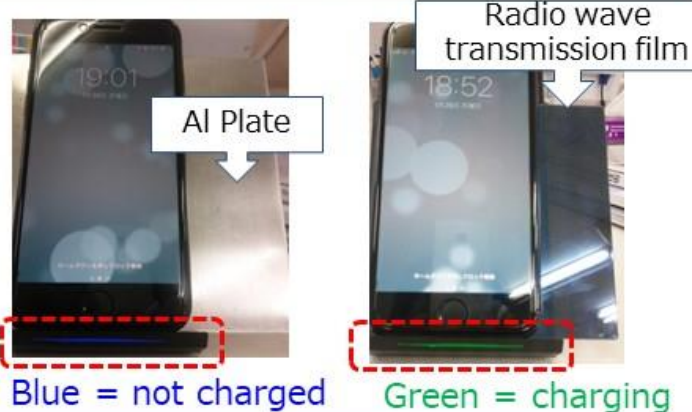
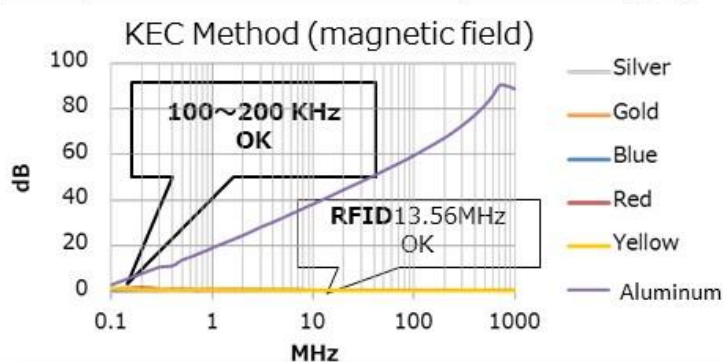
Electromagnetic Wave Transmission Film

Compatible with 5G frequency band (3.7, 4.5, 28GHz)



5G frequency band, all colors have radio wave transmission (no electromagnetic wave attenuation)

Compatible with wireless power supply



Magnetic field 100-200KHz No attenuation ⇒ Compatible with wireless power supply