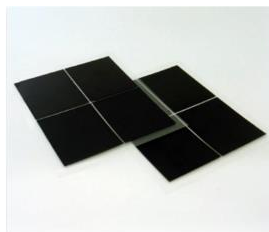


## FLEXIBLE FERRITE SHEET

**Kitagawa series: FFSX**



- Thin and flexible ferrite sheet for metal interference solution for RFID and NFC.
- Excellent performance in suppressing broadband noise.
- Effective for RFID/NFC-to-metal systems at 13.56MHz.
- Increases field strength from Tx to Rx for wireless charging (6.78MHz).
- Adhesive allows for easy mounting.
- Suited for Industry 4.0 smart factory appliances.

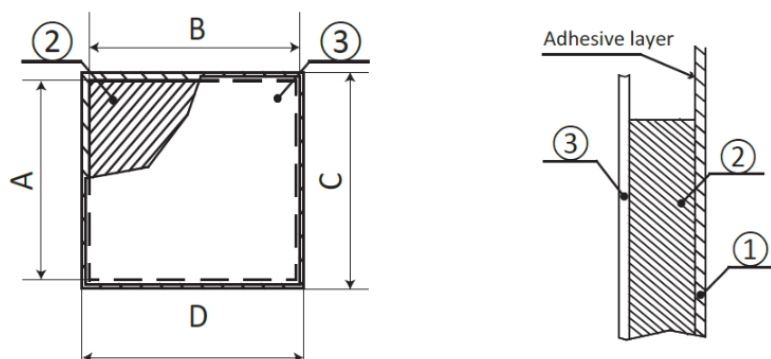
### Guide to EMI Absorbers

#### Material

- PET with adhesive layer PET.
- Ferrite sheet.
- Double sided adhesive tape.

Part Number	A	B	C	D
FFSX	50	60	51.5	61.5

Dimensions in mm

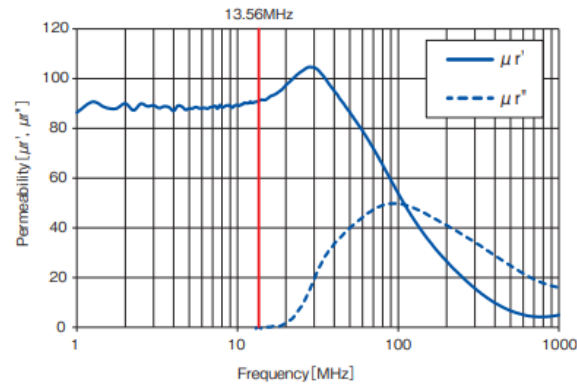


A and B: Soft Ferrite, C and D: Mylar PET

1. Mylar PET, 2. Soft Ferrite, 3. Double-sided Adhesive Tape

Properties	FFSX-H
PSA Thickness (mm)	0.03
PET Film Thickness (mm)	0.08
Total Thickness (mm)	0.21, 0.31, 0.41
Operating Temperature (°C)	-40 to +85

## Permeability



## Coupling loss between antennas

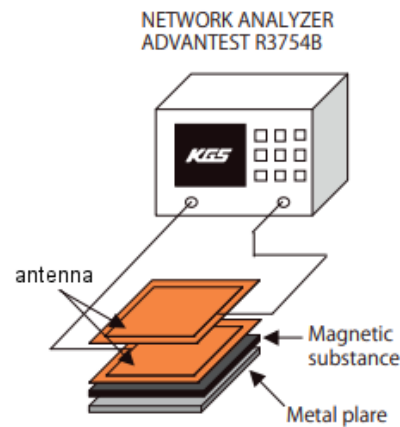
### Test specification

#### Antenna

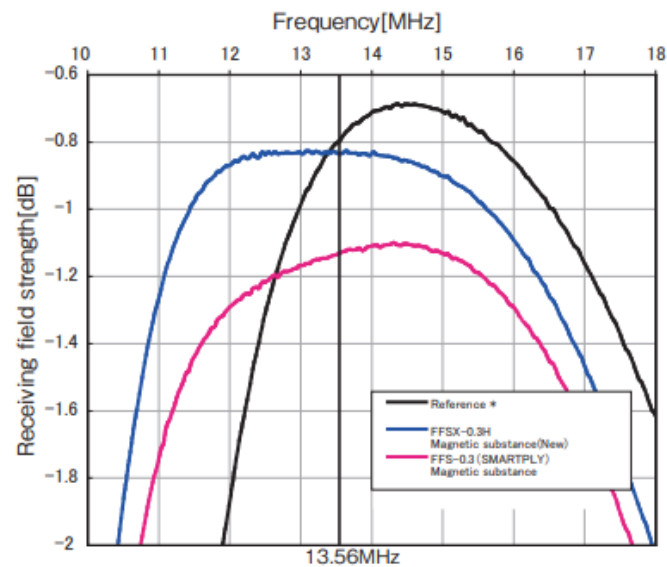
Size	31×42mm (Inner diameter)
Number of turn	3 turns
Gap between antennas	3mm
Gap to metal plate	1mm

#### Magnetic substance

Size	50×60mm
Gap to antenna	0mm (Contact)
Thickness	FFSX-0.3H:±0.3mm
	FFS-0.3:±0.3mm



## Receiving field strength measurement



\* Metal plate.No magnetic substance