

Soft ferrite component

Flexible Ferrite Sheet for RFID (Low Loss Type)



OVERVIEW

TODA KOGYO's FLX-170V is a Ni-Zn-Cu ferrite flexible magnetic sheet that achieves the world's highest level of permeability characteristics (both high permeability μ' and low loss μ'') in the 13.56 MHz frequency band. By attaching it to an RFID or NFC antenna in the HF band, maximum communication characteristics can be obtained.

FEATURES

High permeability μ' and low loss μ''

The development of new Ni-Zn-Cu ferrite materials has improved the permeability characteristics, enabling even better communication characteristics than conventional products.

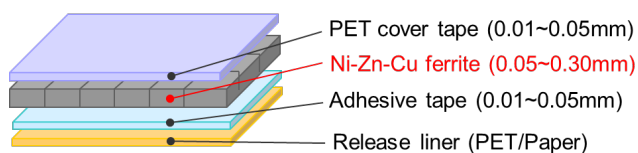
Very thin

By using thin-film technology, it is possible to provide sheets suitable for low-profile electronic devices.

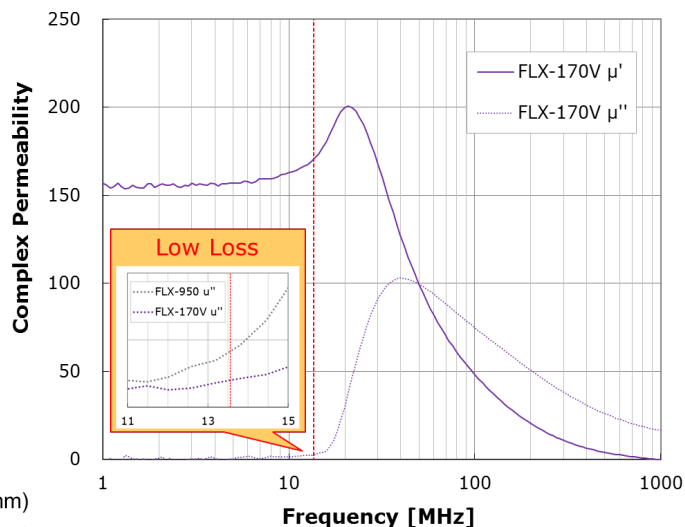
CHARACTERISTICS

【Typical specifications】

Grade	FLX-170V
Material	Ni-Zn-Cu ferrite
Max. size (mm)	□135×135
Thickness of ferrite layer (mm)	0.05~0.30
μ' at 13.56MHz	170
μ'' at 13.56MHz	2.5
Environment	RoHS/Halogen free



【Layer structure】



【Frequency dependence of permeability】

【Optional fabrication】

- ✓ Lamination with many kinds of film.
- ✓ Complicated shape.
- ✓ Adjustment of permeability.

APPLICATIONS

- IC Tags/NFC Tags for metal
- NFC devices embedded in smartphones, etc.
- Wireless charging devices such as mobile and wearable devices

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