

# FLEXIBLE FERRITE — F-01 TO F-06

## DATASHEET



### FEATURES

- Flexible ferrite sheets for 13.56MHz Near-field Communication (NFC), Radio-frequency Identification (RFID) application & wireless charging applications.
- Thin, high permeability sintered ferrite with adhesive tape.
- Standard thicknesses of 0.05mm, 0.06mm, 0.08mm, 0.10mm, 0.15mm and 0.20mm.
- Custom sizes and thicknesses available upon request.
- Operating temperature -40°C to 85°C.
- RoHS compliant.

### APPLICATIONS

- NFC antennas for mobile phones.
- NFC antennas for automobile applications.
- NFC or RFID antennas for security & access control systems.
- Wireless charging for mobile phones and battery powered handheld electronic devices.
- Improved read distance on NFC or RFID devices.
- EMI suppression for Integrated Circuits.

### PROPERTY

### FLEXIBLE FERRITE F-01 TO F-06

Real Permeability,  $\mu'$  @13.56MHz, 0.1V

100  $\pm$  20%

Imaginary Permeability,  $\mu''$  @13.56MHz, 0.1V

5 max

Operating Temperature, °C

-40°C to 85°C

### PROPERTIES

	F-01	F-02	F-03	F-04	F-05	F-06
Cover Film (mm)	0.01	0.01	0.01	0.02	0.02	0.02
Ferrite (mm)	0.05	0.06	0.08	0.10	0.15	0.2
Adhesive Tape (mm)	0.01	0.01	0.01	0.02	0.02	0.02
Total Thickness (mm)	0.07	0.08	0.1	0.14	0.19	0.24
Product Dimension (mm)	115 x 70	115 x 70	115 x 70	115 x 70	115 x 70	115 x 70

### NOTES

- Customised shapes are available
- The above performance data is tested in an environment of 70% humidity, temperature 25 °C
- This data is intended for reference purposes only. It is recommended that the material is tested to fully evaluate its performance ensuring it is fit for purpose.

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