Noise Suppression Sheets
Flexield

For multipurpose

IFL series

Issue date: December 2013

- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Noise Suppression Sheets/Magnetic Sheets/ Radio Wave Absorbers Flexield

FOR NOISE SUPPRESSION IFL MATERIALS

TDK's Flexield is a highly flexible and shock resistant soft magnetic sheet material consisting of magnetic material and resin.
It suppresses noise radiated from electronic devices across a wide frequency range. Offering excellent flexibility in fabrication, Flexield is a sheet-type noise reduction solution particularly suited for high-frequency range.

FEATURES

- They are flexible(not crack).
- They are suited for thin and compact devices.
- Available in a wide range of dimensions and shapes.
- Conforming to RoHS Directive.

APPLICATIONS

- Noise reduction for flexible cables used in mobile devices (including notebook PC's, digital cameras, game machines, and cellular phones).
- Reduction of noise radiated from a wide variety of electronic devices (including noise from CPU).
- Reduction of specific absorbed radiation (SAR) from cellular phones.
- Reduction of internal EMI (resonance, crosstalk) inside a shielded casing.

PRODUCT IDENTIFICATIONS

IFL12	-	100	N	B	300	×	200
(1)		(2)	(3)	(4)	(5)		(6)

(1) Material name
(2) Magnetic sheet thickness(100: 100µm)
(3) Surface film thickness symbol
(4) Double-sided tape thickness symbol
(5) Length(300: 300mm)
(6) Width(200: 200mm)

SPECIFICATIONS

Type (Features/Application)	Thin type High µ/High characteristic	Thin type High µ/High frequency band
Material name	IFL12	IFL10M
Recommended frequency range	5MHz to 3GHz	10MHz to 3GHz
Operating temperature range (°C)	–40 to +85	–40 to +85
Initial permeability[at 1MHz]typ.	180	120
Resistivity(Ω/square) min.	100K	1M
Thermal conductivity (W/m • K)	1.5	1.5
Standard sheet dimensions (mm)	300×200	300×200
Standard magnetic sheet thickness (mm)	0.05, 0.1, 0.2	0.025, 0.05, 0.1, 0.2
Compatible with rolls	✓	✓
Flame retardant	—	—
Environment	RoHS directive Halogen-free	RoHS directive Halogen-free

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Product Identifications of The Standard Sample

IFL12 - 100 N B 300 × 200
(1) (2) (3) (4) (5) (6)

(1) Material name
(2) Magnetic sheet thickness (100: 100μm)
(3) Surface film thickness symbol (N: Correspondence thickness)
(4) Double-sided tape thickness symbol (B: 10μm)
(5) Length(300: 300mm)
(6) Width(200: 200mm)

	IFL10M	IFL12
Correspondence thickness(mm)	0.025, 0.5, 0.1, 0.2	0.05, 0.1, 0.2
Product name of the standard sample	IFL10M-025NB300×200 IFL10M-050NB300×200 IFL10M-100NB300×200 IFL10M-200NB300×200	IFL12-050NB300×200 IFL12-100NB300×200 IFL12-200NB300×200