

Noise Suppression Sheets/Magnetic Sheets/ Radio Wave Absorbers Flexield

Conformity to RoHS Directive

FOR NOISE SUPPRESSION IRJ AND 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

IRJ09	AB	H	20	x	10	x	0.25
(1)	(2)	(3)	(4)		(5)		(6)

- (1) Material name
 (2) Double-sided tape symbol
 No symbol: no double-sided tape used
 A: double-sided tape (t=0.17)
 AB: double-sided tape (t=0.03)
 AT: double-sided tape (t=0.01)
 (3) Product process symbol
 (4) Length(20: 20mm)
 (5) Width(10: 10mm)
 (6) Thickness(0.25: 0.25mm)

SPECIFICATIONS

UNFLAMMABLE TYPE

NEW

Type(Features/Application)	For low frequency					For high frequency		
Material name	IRJ09					IRJ04		
Recommended frequency range	10MHz to 3GHz					50MHz to 10GHz		
Operating temperature range (°C)	-40 to +85					-40 to +85		
Initial permeability[at 1MHz]typ.	100					40		
Resistivity (Ω/square) min.	1M					1M		
Thermal conductivity(W/m • k)	1.6					1.5		
Standard sheet dimensions (mm)	300×200					300×200		
Standard sheet thickness (mm)	0.1	0.2	0.3	0.4	0.5	0.1	0.25	0.5
Standard sheet weight (g)	22	43	65	87	108	22	54	108
Density (g/cm ³)	3.6					3.6		
Flame retardant	UL94V-0					UL94V-0		
Environment	Conformity to RoHS Directive					Conformity to RoHS Directive		

HALOGEN-FREE/HIGH PERFORMANCE TYPE **NEW**

Type(Features/Application)	For high frequency	
Material name	IFL10M	
Recommended frequency range	10MHz to 3GHz	
Operating temperature range (°C)	-40 to +85	
Initial permeability[at 1MHz]typ.	120	
Resistivity (Ω/square) min.	1M	
Thermal conductivity(W/m • k)	1.5	
Standard sheet dimensions (mm)	300×200	
Standard sheet thickness (mm)	0.05	0.1
Standard sheet weight (g)	9	18
Density (g/cm ³)	3	
Flame retardant	—	
Environment	Conformity to RoHS Directive/ Halogen-free	

- 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.

- All specifications are subject to change without notice.