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Noise Suppression Sheets

Flexield

For multipurpose

IRJ/IFL series

Issue date: March 2010

- 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.
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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

| | | | | | | | |
|-------|-----|-----|-----|---|-----|---|------|
| IRJ17 | 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 FOR MULTIPURPOSE

| Type (Features/Application) | Flame retardant High μ /High characteristic | | | | | Flame retardant High μ /Broad frequency band | | | | | Flame retardant High frequency band | | | Thin type Halogen-free | |
|---|--|------|------|------|------|---|------|------|------|------|--|------|------|--------------------------------|------|
| Material name | IRJ17 | | | | | IRJ09 | | | | | IRJ04 | | | IFL10M | |
| Recommended frequency range | 5MHz to 3GHz | | | | | 10MHz to 3GHz | | | | | 50MHz to 10GHz | | | 10MHz to 3GHz | |
| Operating temperature range (°C) | -40 to +85 | | | | | -40 to +85 | | | | | -40 to +85 | | | -40 to +85 | |
| Initial permeability[at 1MHz]typ. | 180 | | | | | 100 | | | | | 40 | | | 120 | |
| Resistivity (Ω /square) min. | 1M | | | | | 1M | | | | | 1M | | | 1M | |
| Thermal conductivity(W/m • K) | 1.7 | | | | | 1.7 | | | | | 1.5 | | | 1.5 | |
| Standard sheet dimensions (mm) | 300×200 | | | | | 300×200 | | | | | 300×200 | | | 300×200 | |
| Standard sheet thickness (mm) | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.1 | 0.25 | 0.5 | 0.05 | 0.1 |
| Standard sheet weight (g) | 21 | 42 | 63 | 84 | 105 | 21 | 42 | 63 | 84 | 105 | 22 | 54 | 108 | 10 | 19 |
| Standard double-sided tape thickness(Adhesive layer) (mm) | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.01 | 0.03 | 0.03 | 0.01 | 0.01 |
| Compatible with rolls | — | | | | | — | | | | | — | | | ✓ | |
| Density (g/cm ³) | 3.5 | | | | | 3.5 | | | | | 3.7 | | | 3.2 | |
| Flame retardant | UL94V-0 | | | | | UL94V-0 | | | | | UL94V-0 | | | — | |
| Environment | RoHS directive | | | | | RoHS directive | | | | | — | | | RoHS directive Halogen-free | |

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