

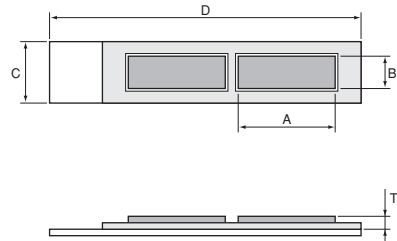
Ferrite Cores for EMI Suppression Thin Type Sandwich Core

FSSA Series

■ Appearance



■ Dimensions



■ Features

1. Fifty percent thinner and eighty percent lighter than a conventional thin type flat cable core.
2. Effective noise suppression in a thin package.
3. Easy to attach to the data-line cable.
4. Shatterproof, with continuous noise reduction due to masking tape protection.

■ Applications

1. For data-processing equipment (PC, PDA, game machines, etc.), and peripheral equipment (Printer, HDD, Display, etc.)
2. For digital equipment (DSC, DVC, DVD recorder, mobile phone, digital audio, optical drive, PDP/LCD/FED, facsimile, etc.)


■ Rated Value

Part Number	A: Outer Dimension of Ferrite Core	B: Width Dimension	T: Thickness Dimension of Ferrite Core	C: Width of Adhesion Film	D: Length of Adhesion Film	Impedance at 10MHz	Impedance at 100MHz	Mass	Minimum Quantity	Note
FSSA101005RNN00S	10.0mm ±0.35mm	5.0mm ±0.3mm	0.5mm ±0.1mm	9.5mm ±0.5mm	35.0mm ±0.5mm	3ohm (typ.)	28ohm (typ.)	0.28g	2000	-
FSSA101005RNN30S	10.0mm ±0.35mm	5.0mm ±0.3mm	0.5mm ±0.1mm	9.5mm ±0.5mm	35.0mm ±0.5mm	3ohm (typ.)	28ohm (typ.)	0.28g	2000	Tape: UL510FR
FSSA151005RNN00S	15.0mm ±0.35mm	5.0mm ±0.3mm	0.5mm ±0.1mm	9.5mm ±0.5mm	45.0mm ±0.5mm	4ohm (typ.)	28ohm (typ.)	0.43g	2000	-
FSSA151005RNN30S	15.0mm ±0.35mm	5.0mm ±0.3mm	0.5mm ±0.1mm	9.5mm ±0.5mm	45.0mm ±0.5mm	4ohm (typ.)	28ohm (typ.)	0.43g	2000	Tape: UL510FR

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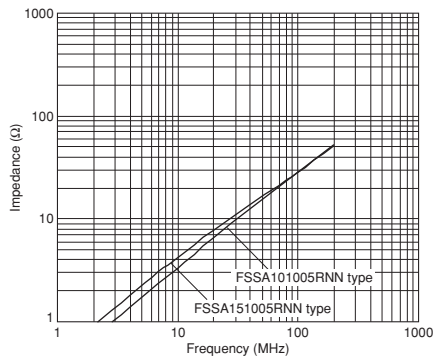
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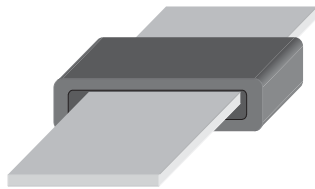
■ Impedance Frequency Characteristics

FSSA101/FSSA151

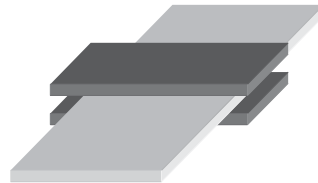


■ Cases to Use

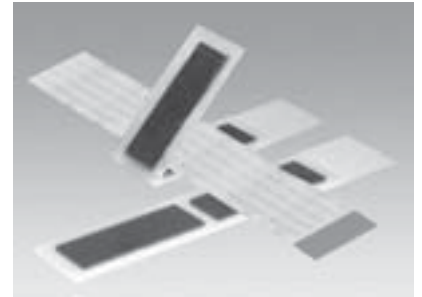
Thin Type Sandwich Core can be substituted for conventional Thin Type Flat Cable Core.



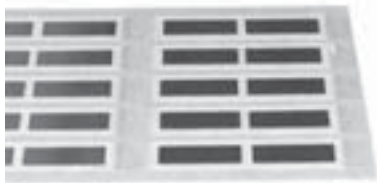
Flat Cable Core



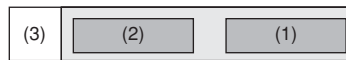
Thin Type Sandwich Cores



Assembly Procedure Example




Suppliance form: Sheet
Multiple Sandwich Cores are positioned as set sticks on a provision form sheet, two cores per set. Each set can be easily removed from the sheet like a sticker.



Please attach (1) in the required place.
The adhesive tape allows for easy placement.




After turning up (2), the tape is affixed on both sides.
Once attached, (3) should be folded to complete assembly.

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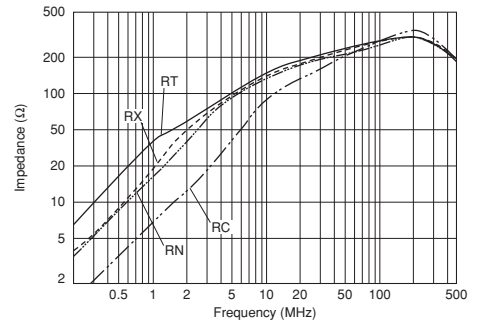
■ Data/Notice

■ Standard Characteristics of Ferrite Materials

Material	μ i	Bs (mT)	Tc (°C)	ρ (Ω -m)
RT	1600	290	≥ 110	$>10^5$
RX	750	330	≥ 110	$>10^5$
RN	550	310	≥ 130	$>10^5$
RC	250	320	≥ 140	$>10^5$

Size of Ferrite Core (30 ϕ - 20 ϕ - 6)

■ Ferrite Material Comparison



Size of Ferrite Core (30 ϕ - 20 ϕ - 6)
N=3 turns

■ Notice (Storage and Operating Condition)

This product is designed for use in the following environment:

FSRH/FSRB/FSRC

Operating Temperature: -25 to 85°C

Storage Temperature: -25 to 125°C

FSSA_S

Operating Temperature: -25 to 85°C

Storage Temperature: -25 to 85°C

Do not use in the following environments or under the following conditions:

1. Ambient air containing corrosive gas
(Chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxide gas, etc.)
2. In liquid
3. Other environments similar to 1 through 2

■ Notice (Handling)

1. Protect product from damage that may occur in transit such as cracking of the core.
2. Handle product with care. Do not drop or throw.
3. Do not apply excessive force to the product.

FSSA_S Storage:

Store in manufacturer's package or tightly re-closed box with following conditions.

Temperature: -10 to +35°C

Humidity: 15 to 85% RH

Use this product within 6 months after receipt.

Storage in high temperature, high humidity or quick temperature change will damage the function of the tape.

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