

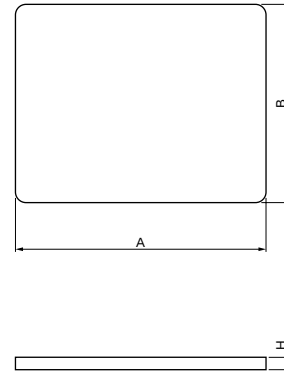
Ferrite Cores for EMI Suppression Plate Cores

FSSA Series

■ Appearance



■ Dimensions



■ Features

Murata offers a stick-on-type ceramic Plate Core used for radio wave absorption in low noise suppression at low frequencies from 10 kHz to 1000MHz.

The Plate Core provides shielding, absorbs radio waves and can be easily installed to the flat ribbon cable.

It can also be used on a variety of circuit boards such as IC, etc.

Special requests can be filled for double-sided tape cores as well.

Murata can also supply Resin coated core which is shatter-proof with continuous noise removal functionality.

Please ask us about the resin coated core, if necessary.

■ Applications

1. For Data-processing equipment
(PC, PDA, Game machine, etc.),
and peripheral equipments
(Printer, FDD, HDD, Display, etc.)
2. For digital equipments
(DSC, DVC, DVD recorder, Mobile phone,
Digital audio, Optical drive, PDP/LCD/FED,
facsimile, etc.)

■ Rated Value

Part Number	A : Outer Dimension	B : Width Dimension	H : Thickness Dimension	Material
FSSA100008RN000T	10.0mm±0.35mm	10.0mm±0.35mm	0.8mm±0.15mm	RN
FSSA100010RN000T	10.0mm±0.35mm	10.0mm±0.35mm	1.0mm±0.15mm	RN
FSSA100Z55RN000T	10.0mm±0.35mm	10.0mm±0.35mm	0.55mm±0.15mm	RN
FSSA101005RN000T	10.0mm±0.35mm	5.0mm±0.3mm	0.5mm±0.1mm	RN

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Part Number	A : Outer Dimension	B : Width Dimension	H : Thickness Dimension	Material
FSSA130004RN000T	13.0mm±0.3mm	5.0mm±0.05mm	0.4mm±0.05mm	RN
FSSA150015RN000T	15.5mm±0.3mm	15.5mm±0.3mm	1.5mm±0.2mm	RN
FSSA151005RN000T	15.0mm±0.35mm	5.0mm±0.3mm	0.5mm±0.1mm	RN
FSSA190010RN000T	19.0mm±0.5mm	6.0mm±0.5mm	1.0mm±0.3mm	RN
FSSA202010RN000T	20.0mm±0.4mm	16.5mm±0.4mm	1.0mm±0.2mm	RN
FSSA202015RN000T	20.0mm±0.4mm	16.5mm±0.4mm	1.5mm±0.2mm	RN
FSSA203005RN000T	20.0mm±0.4mm	20.0mm±0.4mm	0.5mm±0.1mm	RN
FSSA203010RN000T	20.0mm±0.4mm	20.0mm±0.4mm	1.0mm±0.2mm	RN
FSSA203015RN000T	20.0mm±0.4mm	20.0mm±0.4mm	1.5mm±0.2mm	RN
FSSA205007RN000T	20.0mm±0.35mm	7.0mm±0.3mm	0.7mm±0.1mm	RN
FSSA220007RN000T	22.0mm±0.35mm	7.0mm±0.3mm	0.7mm±0.1mm	RN
FSSA222011RT000T	22.8mm±0.5mm	16.5mm±0.5mm	1.1mm±0.2mm	RT
FSSA230008RN000T	23.0mm±0.5mm	23.0mm±0.5mm	0.8mm±0.08mm	RN
FSSA230010RN000T	23.0mm±0.5mm	23.0mm±0.5mm	1.0mm±0.08mm	RN
FSSA230015RN000T	23.0mm±0.5mm	23.0mm±0.5mm	1.5mm±0.2mm	RN
FSSA250004RN000T	25.0mm±0.4mm	7.0mm±0.4mm	0.4mm±0.05mm	RN
FSSA270010RN000T	27.0mm±0.5mm	20.0mm±0.5mm	1.0mm±0.2mm	RN
FSSA271010RN000T	27.0mm±0.6mm	27.0mm±0.6mm	1.0mm±0.3mm	RN
FSSA271020RN000T	27.0mm±0.6mm	27.0mm±0.6mm	2.0mm±0.3mm	RN
FSSA271050RN000T	27.0mm±0.6mm	27.0mm±0.6mm	5.0mm±0.3mm	RN
FSSA272010RN000T	27.0mm±0.5mm	15.0mm±0.5mm	1.0mm±0.1mm	RN
FSSA290005RN000T	29.0mm±0.35mm	5.0mm±0.3mm	0.5mm±0.1mm	RN
FSSA300010RN000T	30.0mm±0.5mm	30.0mm±0.5mm	1.0mm±0.2mm	RN
FSSA401010RN000T	41.5mm±0.4mm	10.0mm±0.3mm	1.0mm±0.1mm	RN
FSSA450015RT000T	45.0mm±0.6mm	10.0mm±0.4mm	1.5mm±0.2mm	RT
FSSA530015RT000T	52.8mm±0.3mm	28.5mm±0.3mm	1.5mm+0.0mm/-0.2mm	RT
FSSA600020RN000T	60.5mm±0.5mm	30.6mm±0.45mm	2.0mm±0.2mm	RN

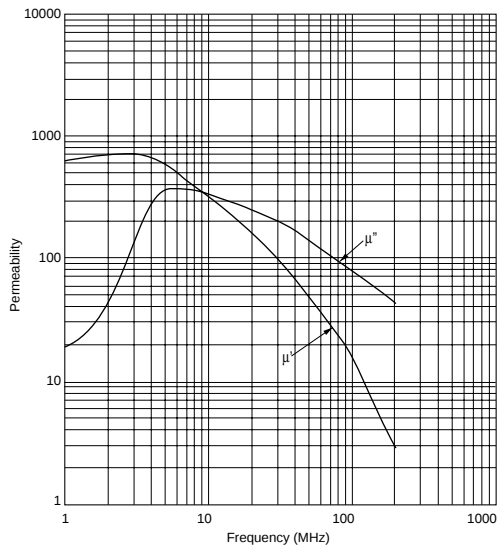
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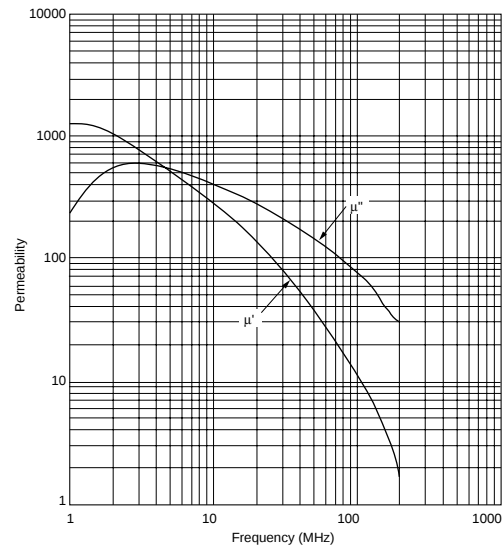
■ Impedance Frequency Characteristics of Material

Ferrite-RN

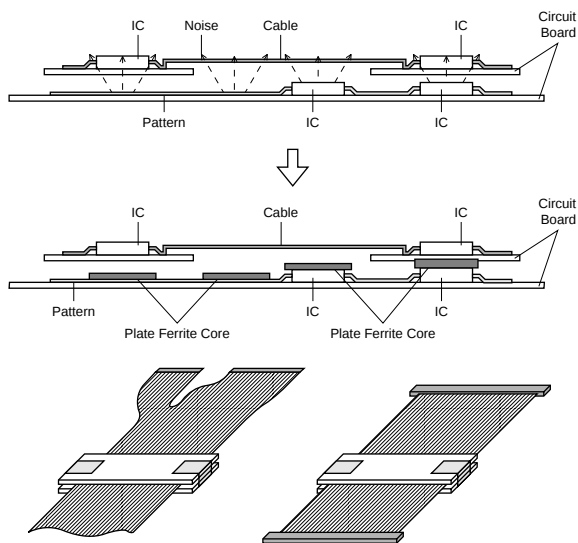


■ Impedance Frequency Characteristics of Material

Ferrite-RT



■ Cases to Use



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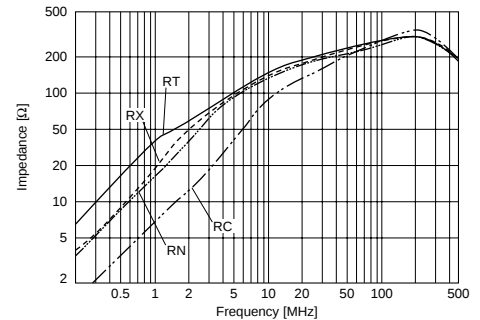
■ Data/Notice

■ Standard Characteristics of Ferrite Materials

Material	μ	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/FSMA/FSSA_T

Operating Temperature: -25 to 85 degree C

Storage Temperature: -25 to 125 degree C

FSSA_S

Operating Temperature: -25 to 85 degree C

Storage Temperature: -25 to 85 degree 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 core.
2. Handle product with care. Do not drop and throw.
3. Do not apply excessive force to the product.

FSSA_S Storage

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

Temperature: -10 to +35 degree C

Humidity: 15 to 85% RH

Use this product within 6 months after receipt.

The storage in high temperature, high humidity or quick temperature change will damage to the function of tape.

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