

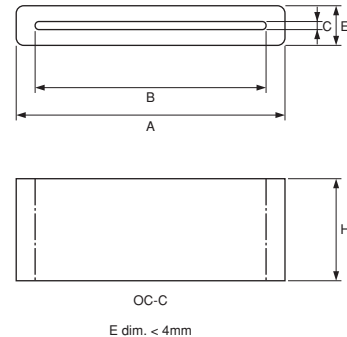
Ferrite Cores for EMI Suppression Flat Cables

Thin Type FSRC Series

■ Appearance



■ Dim. illustration



■ Features

Murata offers a wide variety of thin type small set cores providing solutions for many requirements.

The flat ribbon cable core series has a thickness of less than 4mm, due to the core set becoming smaller and more lightweight.

The ultra-thin type core series is less than 2mm thick, making it suitable to meet various requirements.

When you require a thinner core, please choose "Thin Type Sandwich Core."

■ Applications

1. For data-processing equipment
(PC, PDA, game machine, 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	B : Inner Dimension	H : Length Dimension	E : Width Dimension	C : Gap Dimension	Impedance at 100MHz	Number of Turn	Note
FSRC080090RTB00B	8.0mm ±0.3mm	6.0mm ±0.25mm	9.0mm ±0.25mm	2.7mm ±0.3mm	0.7mm ±0.25mm	51ohm (typ.)	1	Thin Type
FSRC080120RTB00B	8.0mm ±0.3mm	6.0mm ±0.25mm	12.0mm ±0.25mm	2.7mm ±0.3mm	0.7mm ±0.25mm	63ohm (typ.)	1	Thin Type
FSRC120120RXB00B	11.5mm ±0.5mm	8.0mm ±0.25mm	12.0mm ±0.25mm	3.0mm ±0.25mm	0.7mm ±0.25mm	59ohm (typ.)	1	Thin Type
FSRC171060RTB00T	17.0mm ±0.4mm	13.6mm ±0.4mm	6.0mm ±0.4mm	2.8mm ±0.4mm	0.7mm ±0.3mm	37ohm (typ.)	1	Thin Type
FSRC171090RTB00T	17.0mm ±0.4mm	13.6mm ±0.4mm	9.0mm ±0.4mm	2.8mm ±0.4mm	0.7mm ±0.3mm	44ohm (typ.)	1	Thin Type
FSRC171120RTB00T	17.0mm ±0.4mm	13.6mm ±0.4mm	12.0mm ±0.4mm	2.8mm ±0.4mm	0.7mm ±0.3mm	53ohm (typ.)	1	Thin Type
FSRC222060RX000T	22.8mm ±0.5mm	18.7mm ±0.5mm	6.0mm ±0.4mm	2.8mm ±0.4mm	0.7mm ±0.3mm	37ohm (typ.)	1	Thin Type
FSRC222090RX000T	22.8mm ±0.5mm	18.7mm ±0.5mm	9.0mm ±0.4mm	2.8mm ±0.4mm	0.7mm ±0.3mm	46ohm (typ.)	1	Thin Type
FSRC222120RX000T	22.8mm ±0.5mm	18.7mm ±0.5mm	12.0mm ±0.4mm	2.8mm ±0.4mm	0.7mm ±0.3mm	53ohm (typ.)	1	Thin Type

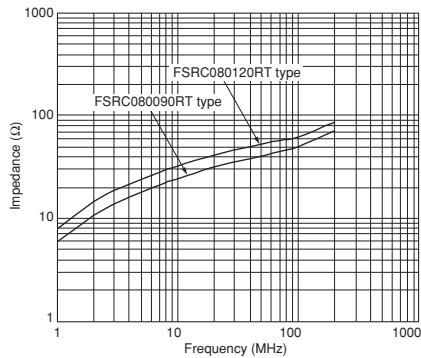
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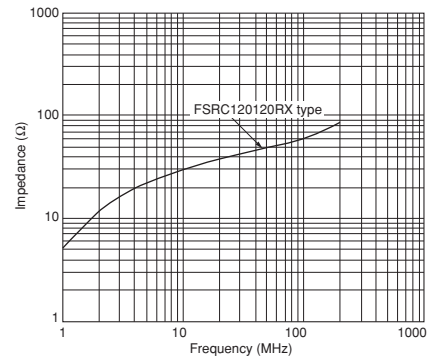
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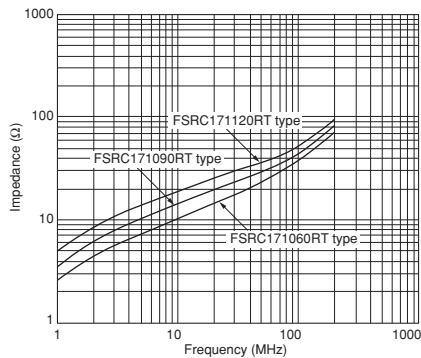
■ Impedance Frequency Characteristics FSRC080



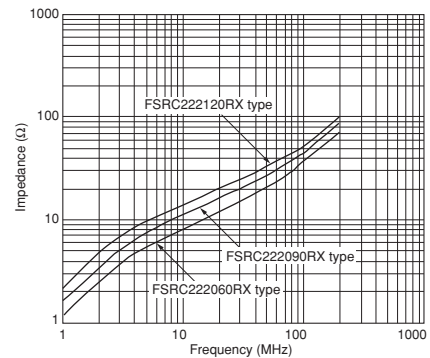
■ Impedance Frequency Characteristics FSRC120



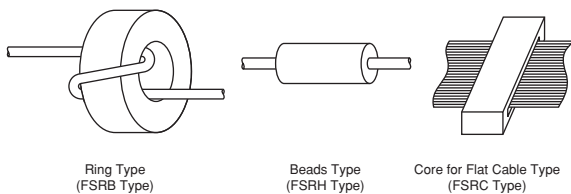
■ Impedance Frequency Characteristics FSRC171



■ Impedance Frequency Characteristics FSRC222



■ Cases to Use



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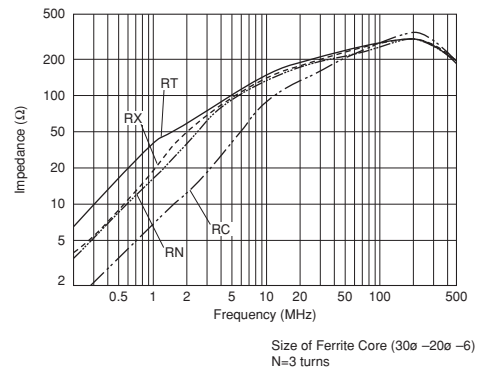
■ Data/Notice

■ 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



■ 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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