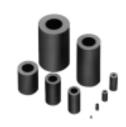
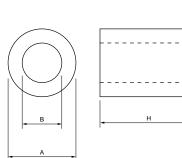
Dim. illustration

Data Sheet

Ferrite Cores for EMI Suppression Beads Core FSRH Series





Features

Appearance

- 1. Easy to use and excellent noise suppression. Data lines can be passed through core or wound around core several times.
- 2. Effective for suppressing noise at high frequencies

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 eguipment (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 : Inner Dimension	H : Length Dimension	Impedance at 100MHz (1 turn)	Note
FSRH021049RNB01B	1.95mm±0.15mm	1.02mm±0.15mm	4.9mm±0.25mm	34ohm(typ.)	-
FSRH030060RNB00B	3.36mm±0.15mm	1.1mm±0.15mm	6.0mm±0.2mm	74ohm(typ.)	-
FSRH041D85RNB00B	3.6mm±0.2mm	1.0mm±0.2mm	4.85mm±0.2mm	66ohm(typ.)	-
FSRH044C00RNB00B	3.6mm±0.1mm	1.5mm±0.1mm	3.0mm±0.15mm	40ohm(typ.)	-
FSRH044040RNB00B	3.6mm±0.1mm	1.5mm±0.1mm	4.0mm±0.15mm	50ohm(typ.)	-
FSRH044050RNB00B	3.6mm±0.1mm	1.5mm±0.1mm	5.0mm±0.15mm	53ohm(typ.)	-
FSRH050050RN000B	4.7mm±0.3mm	1.4mm±0.2mm	5.0mm±0.3mm	64ohm(typ.)	-
FSRH050100RN000B	4.7mm±0.3mm	1.4mm±0.2mm	10.0mm±0.3mm	120ohm(typ.)	-
FSRH060080RN001B	5.5mm±0.3mm	2.7mm±0.2mm	8.0mm±0.5mm	64ohm(typ.)	-

∆ Note:

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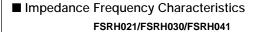
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product

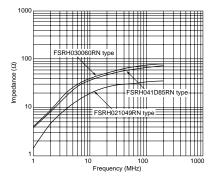
specifications or transact the approval sheet for product specifications before ordering.



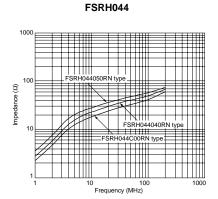
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Data Sheet							
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Part Number	A : Outer Dimension	B : Inner Dimension	H : Length Dimension	Impedance at 100MHz (1 turn)	Note		
FSRH070080RN000B	7.0mm±0.3mm	4.0mm±0.2mm	8.0mm±0.5mm	59ohm(typ.)	-		
FSRH070140RN000B	7.0mm±0.3mm	4.0mm±0.2mm	14.0mm±0.5mm	82ohm(typ.)	-		
FSRH074140RNF00B	7.0mm±0.3mm	4.0mm±0.4mm	14.0mm±0.5mm	93ohm(typ.)	Division Type		
FSRH090100RN000B	9.0mm±0.3mm	5.0mm±0.3mm	10.0mm±0.5mm	72ohm(typ.)	For USB/IEEE13		
FSRH090160RN000B	9.0mm±0.3mm	5.0mm±0.3mm	16.0mm±0.5mm	100ohm(typ.)	For USB/IEEE13		
FSRH090200RN000T	9.0mm±0.3mm	5.0mm±0.3mm	20.0mm±0.8mm	135ohm(typ.)	For USB/IEEE13		
FSRH091100RN000B	9.0mm±0.3mm	4.3mm±0.2mm	10.0mm±0.5mm	94ohm(typ.)	For USB/IEEE13		
FSRH091160RN000T	9.0mm±0.3mm	4.3mm±0.2mm	16.0mm±0.5mm	145ohm(typ.)	For USB/IEEE13		
FSRH100150RTB00T	10.0mm±0.3mm	6.0mm±0.2mm	15.0mm±0.5mm	92ohm(typ.)	For USB/IEEE13		
FSRH120150RT000T	12.0mm±0.3mm	7.0mm±0.3mm	15.0mm±0.5mm	90ohm(typ.)	For USB/IEEE13		
FSRH120200RT000T	12.0mm±0.3mm	7.0mm±0.3mm	20.0mm±0.5mm	120ohm(typ.)	For USB/IEEE13		
FSRH120285RT000T	12.0mm±0.3mm	7.0mm±0.3mm	28.5mm±0.8mm	175ohm(typ.)	For USB/IEEE13		
FSRH121150RT000T	12.0mm±0.3mm	5.6mm±0.3mm	15.0mm±0.5mm	130ohm(typ.)	For USB/IEEE13		
FSRH121200RT000T	12.0mm±0.3mm	5.6mm±0.3mm	20.0mm±0.5mm	170ohm(typ.)	For USB/IEEE13		
FSRH121250RT000T	12.0mm±0.3mm	5.6mm±0.3mm	25.0mm±0.7mm	223ohm(typ.)	For USB/IEEE13		
FSRH142150RX000T	14.0mm±0.5mm	8.0mm±0.5mm	15.0mm±0.5mm	97ohm(typ.)	-		
FSRH142200RX000T	14.0mm±0.5mm	8.0mm±0.5mm	20.0mm±0.5mm	127ohm(typ.)	-		
FSRH142280RX000T	14.0mm±0.5mm	8.0mm±0.5mm	28.0mm±1.0mm	170ohm(typ.)	-		
FSRH162200RN000T	16.3mm±0.5mm	8.3mm±0.4mm	20.0mm±0.8mm	162ohm(typ.)	-		
FSRH162280RN000T	16.3mm±0.5mm	8.3mm±0.4mm	28.0mm±0.8mm	225ohm(typ.)	-		
FSRH190285RT000T	19.0mm±0.6mm	10.0mm±0.5mm	28.5mm±0.8mm	200ohm(typ.)	-		





■ Impedance Frequency Characteristics



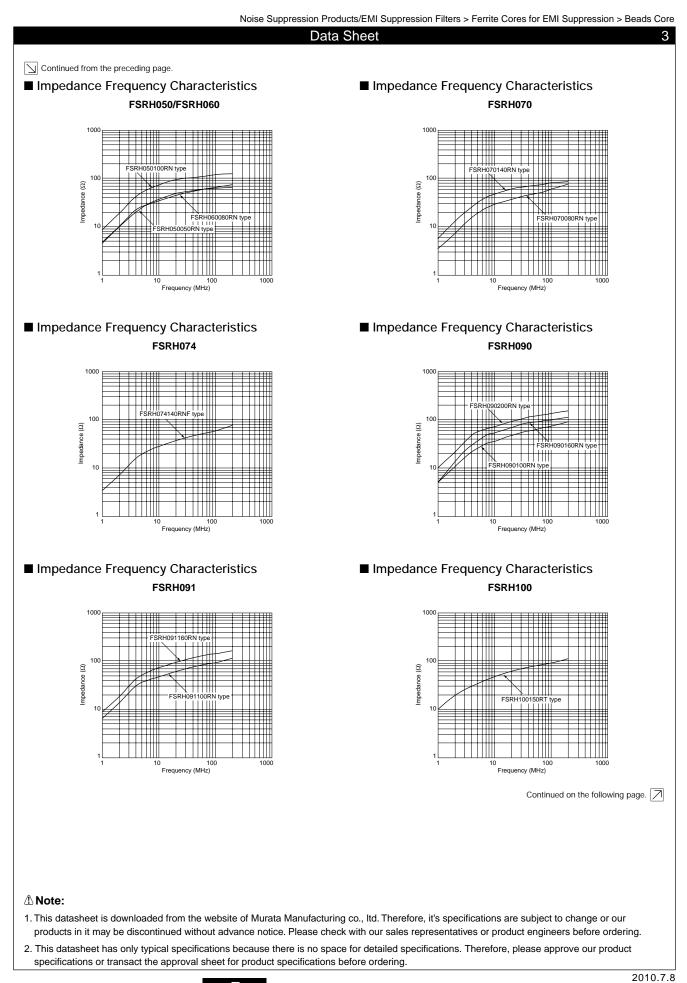
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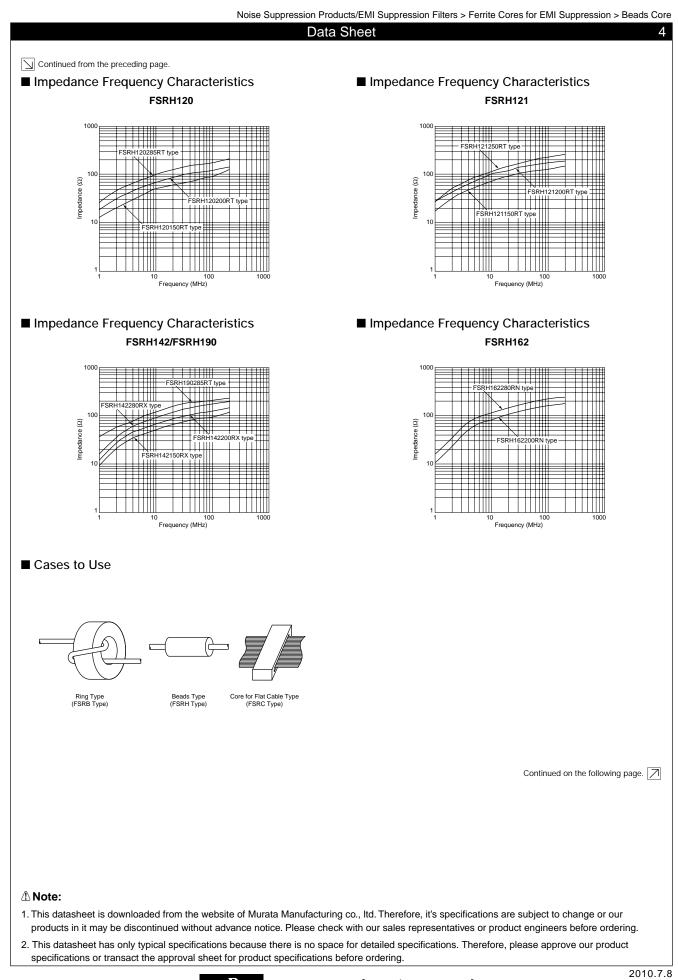
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muRata Murata Manufacturing Co., Ltd. http://www.murata.com/



Data Sheet

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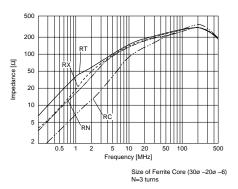
■ Data/Notice

Standard Characteristics of Ferrite Materials

Material	μi	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 (30ø - 20ø - 6)

Ferrite Material Comparison



5

FSSA_S Strorage

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

Temperature: -10 to +35 degrees 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.

FSSA_S Operating Temperature: -25 to 85 degrees C Storage Temperature: -25 to 85 degrees C

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

Notice (Storage and Operating Condition)

This product is designed for use in the following

Operating Temperature: -25 to 85 degrees C

Storage Temperature: -25 to 125 degrees C

FSRH/FSRB/FSRC/FSMA/FSSA T

- 1. Ambient air containing corrosive gas (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
- 2. In liquid

environment.

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.

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