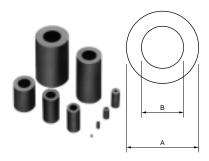
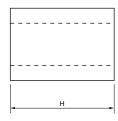
Data Sheet

Ferrite Cores for EMI Suppression Beads Core

FSRH Series

■ Appearance / Dim. illustration





Features

- 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 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	Phi A : Outer Dimension	Phi B : Inner Dimension	H : Length Dimension	Impedance at 100MHz (1 turn)	Note
FSRH021049RNB01B	1.95mm	1.02mm	4.9mm	34ohm	-
FSRH030060RNB00B	3.36mm	1.1mm	6.0mm	74ohm	-
FSRH041D85RNB00B	3.6mm	1.0mm	4.85mm	66ohm	-
FSRH044C00RNB00B	3.6mm	1.5mm	3.0mm	40ohm	-
FSRH044030RNA00B	3.7mm	1.4mm	3.1mm	40ohm	Resin coat
FSRH044040RNB00B	3.6mm	1.5mm	4.0mm	50ohm	-
FSRH044050RNB00B	3.6mm	1.5mm	5.0mm	53ohm	-
FSRH050050RN000B	4.7mm	1.4mm	5.0mm	64ohm	-
FSRH050100RN000B	4.7mm	1.4mm	10.0mm	120ohm	-
FSRH060080RN001B	5.5mm	2.7mm	8.0mm	64ohm	-
FSRH070080RN000B	7.0mm	4.0mm	8.0mm	59ohm	-
FSRH070140RN000B	7.0mm	4.0mm	14.0mm	82ohm	-
FSRH074140RNF00B	7.0mm	4.0mm	14.0mm	93ohm	Division Type
FSRH090100RN000B	9.0mm	5.0mm	10.0mm	72ohm	For USB/IEEE1394
FSRH090160RN000B	9.0mm	5.0mm	16.0mm	100ohm	For USB/IEEE1394
FSRH090200RN000T	9.0mm	5.0mm	20.0mm	135ohm	For USB/IEEE1394
FSRH091100RN000B	9.0mm	4.3mm	10.0mm	94ohm	For USB/IEEE1394
FSRH091160RN000T	9.0mm	4.3mm	16.0mm	145ohm	For USB/IEEE1394
FSRH100150RTB00T	10.0mm	6.0mm	15.0mm	92ohm	For USB/IEEE1394
FSRH120150RT000T	12.0mm	7.0mm	15.0mm	90ohm	For USB/IEEE1394
FSRH120200RT000T	12.0mm	7.0mm	20.0mm	120ohm	For USB/IEEE1394
FSRH120285RT000T	12.0mm	7.0mm	28.5mm	175ohm	For USB/IEEE1394

Continued on the following page.

⚠ Note:

- 1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- 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.

Data Sheet

Continued from the preceding page.

Part Number	Phi A : Outer Dimension	Phi B : Inner Dimension	H : Length Dimension	Impedance at 100MHz (1 turn)	Note
FSRH121150RT000T	12.0mm	5.6mm	15.0mm	130ohm	For USB/IEEE1394
FSRH121200RT000T	12.0mm	5.6mm	20.0mm	170ohm	For USB/IEEE1394
FSRH121250RT000T	12.0mm	5.6mm	25.0mm	223ohm	For USB/IEEE1394
FSRH142150RX000T	14.0mm	8.0mm	15.0mm	97ohm	-
FSRH142200RX000T	14.0mm	8.0mm	20.0mm	127ohm	-
FSRH142280RX000T	14.0mm	8.0mm	28.0mm	170ohm	-
FSRH162200RN000T	16.3mm	8.3mm	20.0mm	162ohm	-
FSRH162280RN000T	16.3mm	8.3mm	28.0mm	225ohm	-
FSRH190285RT000T	19.0mm	10.0mm	28.5mm	200ohm	-

Material	μi	Bs (mT)	Tc (°C)	ρ (Ω-m)
RT	1600	290	≧110	>105
RX	750	330	≧110	>105
RN	550	310	≥130	>105
RC	250	320	≧140	>105

Size of ferrite core (30ø - 20ø - 6)

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