FERRITECORE **FSRB** Series

Reference Specification

1. Scope

This reference specification is applied to ferrite core (FSRB Series) used for noise suppression. Please contact us when using this product for any other applications than described in the above.

2. Murata Part Number

Please see P.4/14.

< Part Numbering >

(例) <u>FS</u>	RB	08	0	030	<u>R T</u>	В0	0	<u>B</u>		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
(1)Ferrite)					(6) M	ateria	al		
(2)Ring Core (7) Process [B0:Barrel Type]										
(3) Dimensions (8) Individual Specification Code										
(4)Oute	(4)Outer Dimension Supplement Code						(9) Packing Code [B:Bulk]			
(5)Leng	th									

3.Material

Ferrite	Permeability (Ref.)	Curie temperature	Electrical resistance		
RT (Ni-Zn Type)	1600 ± 30%	≧110 °C	≧10 ⁵ Ω·m		
RN (Ni-Zn Type)	550 ± 30%	≧130 °C	≧10 ⁵ Ω·m		

4. Use in the environment

Operating temperature : -25~+85°C Storage temperature : -25~+125°C

5. Shape and Dimension

Please see P.5/8~8/8.

6. Appearance Standard

- Please see P.4/8 as for Limit size of defect (Xmm²) fig. 1
- If there is any doubt about the appearance, the worst samples shall be made.

7. Electrical Characteristic

No.	Ferrite	Specification	Test Methods	
7.1	Impedance	Please see P.4/8.	Instruments : AGILENT4191A (or equivalent)	
7.2	Frequency-characteri stics of Impedance (reference)	Please see P.5/8~8/8.	Frequency : 100MHz Lead wire : 2UEW AWG#18 (Please see P.4/8.)	$\partial \lambda$
			Temperature : 23±2°C	
			Impedance shall be measured at fig.2	fig.2

8. Inspection

Test condition

Characteristics shall be measured at 20±15°C, 85% RH under. If the measured value should be doubted, characteristics shall be measured at 23±2°C, 85% RH under again.

Inspection Level: ANSI/ASQC Z1.4-1993, Revel S-4, Normal, Single inspection

Inspection item	Judgment	Measurement				
Characteristic	n=10,Ac=0,Re=1	AGILENT4191A				
Characteristic	11=10,AC=0,Re=1	(or equivalent)				
Appearance	AQL 2.5%	Visual Inspection				
Dimension	n=10,Ac=0,Re=1	Slide Calipers etc.				

Xmm² Max

fig.1

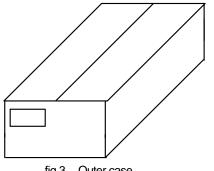
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Spec No.JEYF01FH-1004D-01

Reference Only

9. Packing

- Quantity in package weight...Please see P.4/14.
- Basic packing



	Outer Ca	ase Dimensi	Inner Case	
	W	D	Н	
1	406	265	118	<fsrb******b> Inner Case</fsrb******b>

P.2/8

XAbove Outer Case size is typical

(3)

: Month / Jan. to Sep. \rightarrow 1 to 9, Oct. to Dec. \rightarrow O,N,D

: Year / Last digit of year

When quantity is less than standard quantity, size or kind of outer case and inner case is changed if needed.

fig.3 Outer case

· Marking for Outside package

Customer name Purchasing Order Number, Customer Part Number, MURATA part number, Inspection number(*1),RoHS Marking(*2), Quantity, etc *1) « Expression of Inspection No. » <u>D</u> <u>OOOO</u> <u>×××</u>

> Second digit : Mon Third, Fourth digit : Day

(1)

(2)

 $ROHS - \underbrace{Y}_{(1)} \underbrace{(\Delta)}_{(2)}$

*1) « Expression of Inspection No. »
(1) Factory Code

(2) Date

(3) Serial No.

*2) « Expression of RoHS Marking »

(1) RoHS regulation conformity parts.(2) MURATA classification number

First digit

10. Changes of specification

Any changes in these devices shall be enforced after consultation.

11. **CAUTION**

1) Limitation of Applications

Please contact us before using our products for the under mentioned applications requiring especially high reliability in order to prevent defects which might directly cause damage to other party's life, body or property (listed below).

- (1) Aircraft equipment
- (2) Aerospace equipment
- (3) Undersea equipment
- (4) Nuclear control apparatus
- (5) Medical equipment
- (6) Transportation equipment (automobiles, trains, ships, etc.)
- (7) Traffic signal equipment
- (8) Disaster prevention / crime prevention equipment
- (9) Data-processing equipment
- (10) Applications of similar complexity or with reliability requirements comparable to the applications listed in the above
- 2) Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

MURATA MFG CO.,LTD.

Spec No.JEYF01FH-1004D-01

Reference Only P.3/8

12. Notice

- 1) Protect product from damage that may occur in transit such as cracking of core.
- 2) Handle product with care. Do not drop.
- 3) Do not apply excessive force to the product.
- 4)This product is designed for use in the environment specified in this approval drawing; do not be used in the following environments or under the following conditions.
 - (1) Ambient air containing corrosive gas. (Cl₂, H₂S, NH₃, SO₂, NO_X, etc.)
 - (2) In liquid.
 - (3) Other environments similar to (1) through (2).

Please contact us before using our products for the below mentioned environments.

13. \land Note:

- 1) Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- 2) You are requested not to use our product deviating from the reference specifications.
- 3) The contents of this reference specification are subject to change without advance notice.

Please approve our product specifications or transact the approval sheet for product specifications before ordering.

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P.4/8

Murata Part Number, Appearance, Characteristic, Packing List

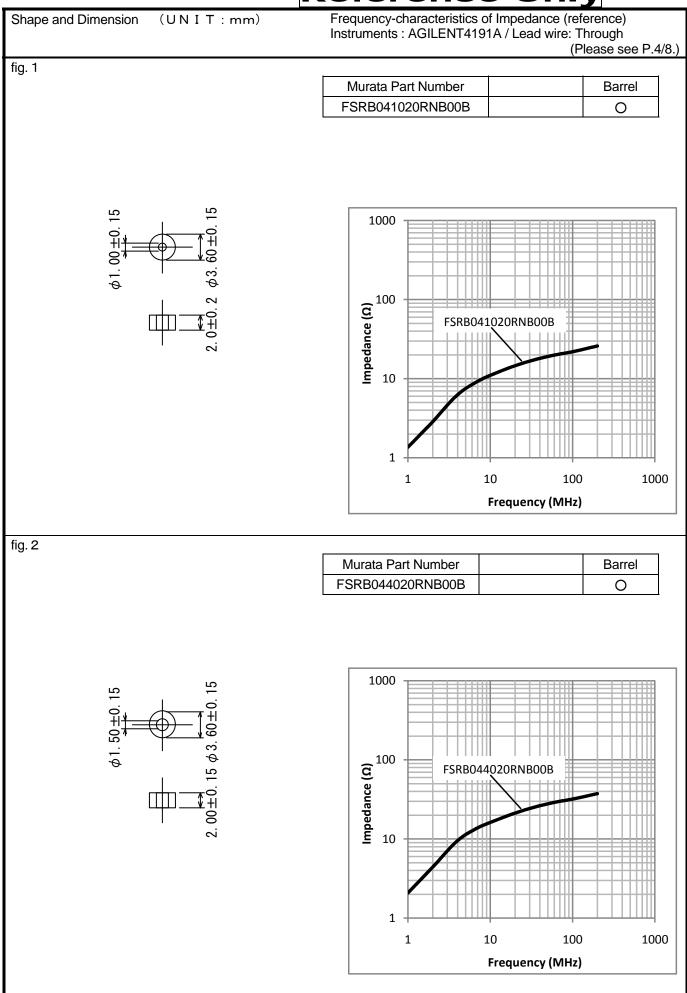
MURATA		appearance (Xmm ²)		Characteristic				Packing quantity		Mass	
Part Number	Material		Dimension	Impedance	Lead	wire	Packing	Min. Qty.	Total Qty.	Unit mass	Total mass
FSRB041020RNB00B	RN	2	fig.1	≧22Ω	φ0.8	25mm	1	10,000	50,000	0.09g	5.4kg
FSRB044020RNB00B	RN	2	fig.2	≧16Ω	φ0.8	25mm	1	5,000	25,000	0.09g	3.2kg
FSRB060040RNB00B	RN	2	fig.3	≧25Ω	φ0.8	35mm	1	4,000	20,000	0.37g	8.3kg
FSRB071040RNB00B	RN	2	fig.4	≧20Ω	φ0.8	35mm	1	2,000	10,000	0.53g	6.2kg
FSRB090060RNB00B	RN	3	fig.5	≧30Ω	AWG18	40mm	1	600	3,000	1.3g	4.9kg
FSRB090080RNB00B	RN	3	fig.5	≧39Ω	AWG18	40mm	1	600	3,000	1.8g	6.3kg
FSRB091060RNB00B	RN	3	fig.6	≧38Ω	AWG18	40mm	1	600	3,000	1.5g	5.4kg
FSRB091080RNB00B	RN	3	fig.6	≧50Ω	AWG18	40mm	1	600	3,000	2.0g	6.9kg
FSRB100030RTB00B	RT	4	fig.7	≧20Ω	AWG18	60mm	1	1,000	5,000	0.78g	4.8kg
FSRB100060RTB00B	RT	5	fig.7	≧31Ω	AWG18	60mm	1	600	3,000	1.6g	5.6kg
FSRB100080RTB00B	RT	5	fig.7	≧38Ω	AWG18	60mm	1	500	2,500	2.1g	6.2kg
FSRB100100RTB00B	RT	5	fig.7	≧45Ω	AWG18	60mm	1	500	2,500	2.5g	7.3kg

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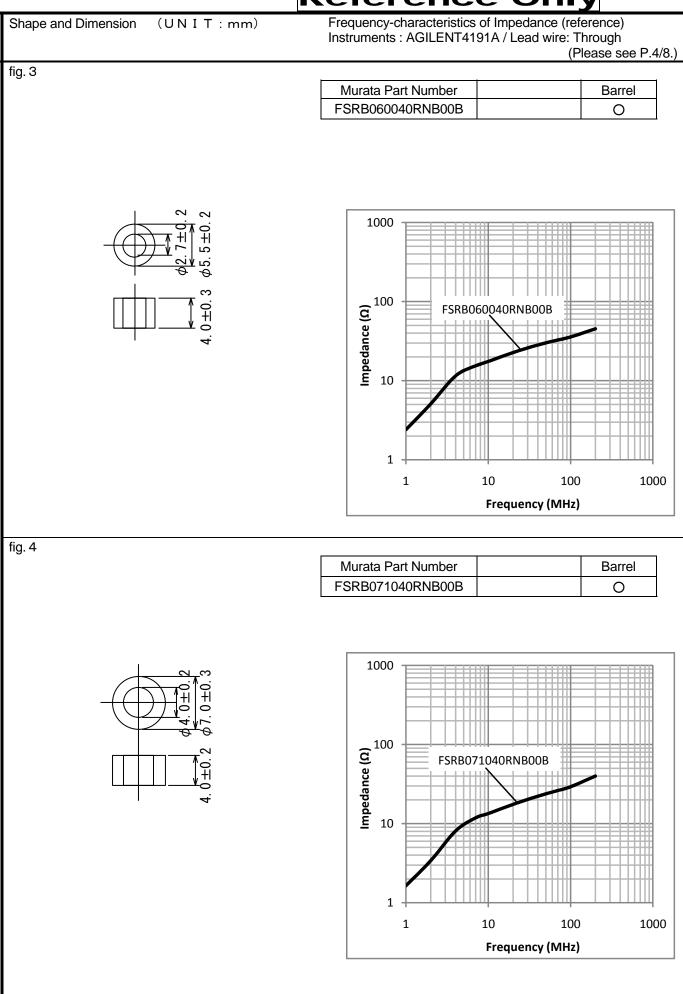
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P.6/8



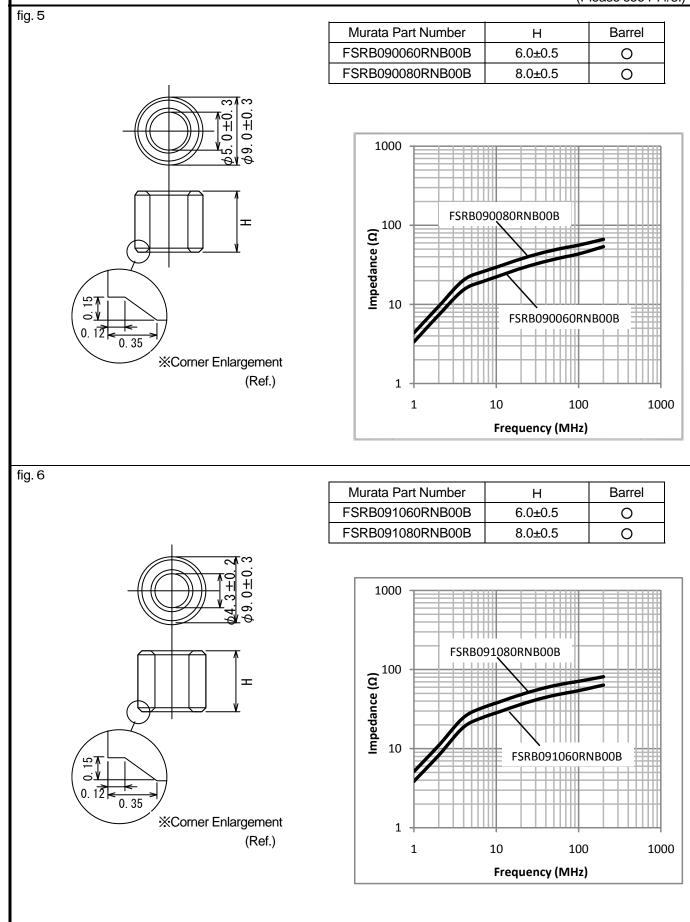
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P.7/8

Shape and Dimension (U N I T : mm)

Frequency-characteristics of Impedance (reference) Instruments : AGILENT4191A / Lead wire: Through

(Please see P.4/8.)



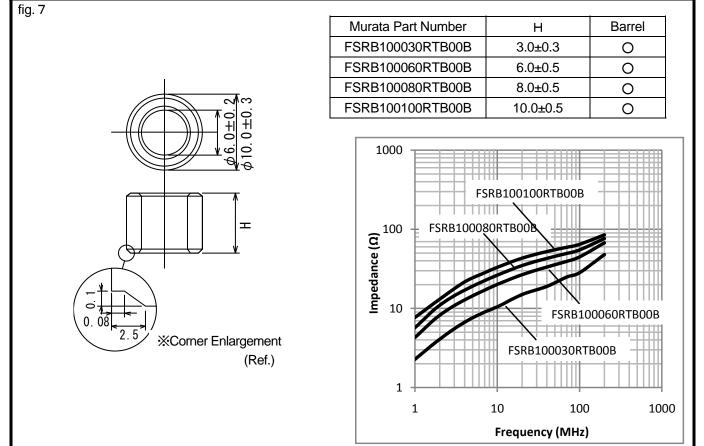
MURATA MFG CO.,LTD.

P.8/8

Shape and Dimension (UNIT:mm)

Frequency-characteristics of Impedance (reference) Instruments : AGILENT4191A / Lead wire: Through

(Please see P.4/8.)



单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)