imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



FERRITECORE FSSA_RNN**S Series (Sand Core) Reference Specification

1. Scope

This reference specification is applied to ferrite core (FSSA_RNN**S 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

< Part Numbering >

FS	<u>S A</u>	10	1	005	RN	<u>N 0</u>	0	<u>s</u>				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)				
(1)Ferrite						(6) M	ateria	al				
(2)Plate Core ((7) Pr	(7) Process N0:Two or more cores Type/ N3:Tape UL510(FR)					
(3)Dimensions						(8) Ind	(8) Individual Specification Code					
(4)Outer Dimension Supplement Code						(9) Packing Code S:Sheet						
(5)Length												

3.Material

Ferrite RN (Ni-Zn Type)

Adhesive tape Acrylic

Adhesive film FSSA*****RNN00S : Acrylic FSSA*****RNN30S : Acrylic (UL510FR)

4. Use in the environment - Storage condition

Operating temperature : -25~85°C

Storage temperature : -25~85°C

Storage condition : Use the products within 6 months after delivered.

Products should be storage on the following conditions.

Heat and high humidity and the intense place of temperature change make a cause,

which causes characteristic degradation.

- < Recommended storage condition >
 - Temperature : 35°C max.
- Humidity : Around 50% relative humidity

Cool and dark place (No change on temperature and humidity as much as possible)

5. Operating Condition

Cable: Correspond by the thickness of 0.6mm

When you use it exceeding this, please evaluate reliability in your company.

6. Appearance Standard

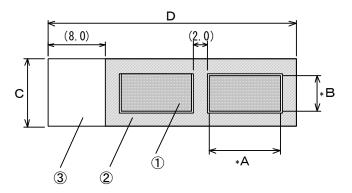
There must be no defects, cracks and foreign substance on the core, which is harmful in practical. The defects is 5.0mm² maximum.(please see fig. 1) If there is any doubt about the appearance, the limit sample shall be made.

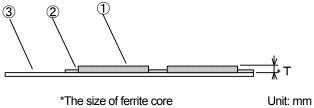
5.0mm² Max. fig.1

7. Electrical Characteristic

No.	Item	Specifications		Test Methods			
7.1	Impedance	FSSA101005RNN00S	≧14Ω	Instruments : 4191A (or equivalent)			
		FSSA101005RNN30S	≦ 14 ¥	Frequency : 100MHz Lead wire :FSSA1** : t0.6 -25mm			
		FSSA151005RNN00S	≧14Ω				
		FSSA151005RNN30S	≤ 14 32	Temperature : 23±2°C			
				Impedance shall be measured at fig.2			
				T			
				fig.2			
7.2	Frequency-characteristics of Impedance (reference).	Please see P.5/5					

8. Shape and Dimension





The size of ferrite core	
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No.	名称						
1	Ferrite core (Murata Mfg.)						
2	Adhesive tape : Acrylic						
3	Adhesive film : Acrylic						

P/N	Film		Ferrite core	Adhesive film		
		А	В	Т	С	D
FSSA101005RNN00S	FSSA101005RNN00S -		5.0+0.3	0.5+0.1	9.5+0.5	35.0+0.5
FSSA101005RNN30S	UL510(FR)	10.00±0.35	5.0±0.5	0.5±0.1	9.5±0.5	35.0±0.5
FSSA151005RNN00S	-	15 00+0 25	5 0±0 2	0.5+0.1	9.5+0.5	45 0±0 5
FSSA151005RNN30S	UL510(FR)	15.00±0.35	5.0±0.3	0.5±0.1	9.5±0.5	45.0±0.5

9. Inspection

9.1 Test condition

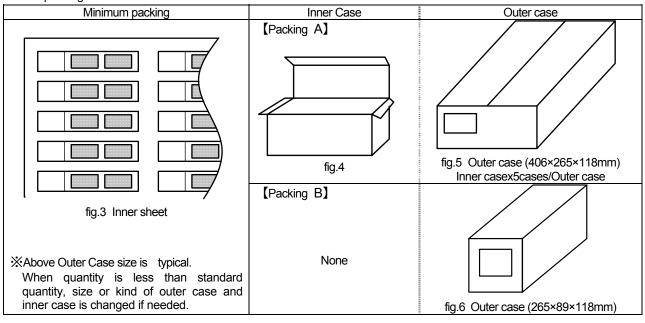
Characteristics shall be measured at 20±15°C, 85% RH under. If the measured value should be doubted, characteristics shall be measured at 23±2°C, 85% RH under again.

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

Inspection item	Judgment	Measurement			
Characteristic	n=10,Ac=0,Re=1	4191A (or equivalent)			
Appearance	AQL 2.5%	Visual Inspection			
Dimension	n=10,Ac=0,Re=1	Slide Calipers etc.			

10. Packing

Basic packing



Quantity in package • mass

		Pa	acking quant	tity (pc.)		Min. order qty. (pc.)	mass		
MURATA Part Number	Minimum packing core sheets tot		ing total	Inner case	Total quantity		Packing	unit (g/pc.)	total (kg/case)
FSSA101005RNN00S	25	20	500	2,000	10.000	А	500	0.28	4.2
FSSA101005RNN30S				,	-,				
FSSA151005RNN00S	25	20	500		2.000	в	500	0.43	1.5
FSSA151005RNN30S	25	20	500	-	2,000	Б	500	0.45	1.5

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		$\frac{1}{(1)} \frac{0000}{(2)}$	$\frac{\times\times\times}{(3)}$				
(1) Factory Code (2) Date	First digit Second digit Third, Fourth digit	: Year / Last digit of year : Month / Jan. to Sep. \rightarrow 1 to 9, Oct. to Dec. \rightarrow O, N					
(3) Serial No.		,					
(12) " Everyopian of DoUS Ma							

*2) « Expression of RoHS Marking »

 $ROHS = \underline{Y} (\underline{\Delta})$ (1)(2)

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

11. Changes of specification

Any changes in these devices shall be enforced after consultation.

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.

13. 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) Core should be taken to damage of lead wire when it is inserting or rolling in core.
- 5) 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.

6) Please don't peel off and put a tape again due to using strong adhesive tape in order to fix long term.

14. \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

