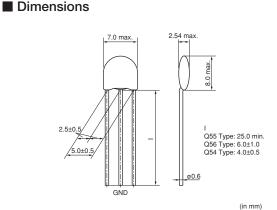
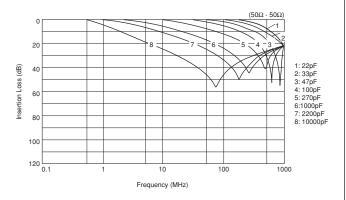
Data Sheet

Leaded EMIFIL[®] (Three-terminal Capacitor type) Small Type **DSN6/DSS6** Series

DSN6 Series



Insertion Loss Characteristics (Main Items)

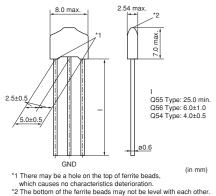


■ Rated Value (□: lead type/packaging code)

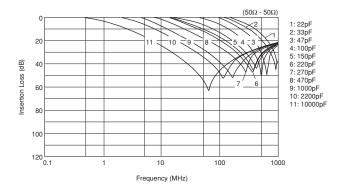
Part Number	Capacitance	Rated Voltage	Rated Current	Operating Temperature Range
DSN6NC51H220	22pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H330	33pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H470	47pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H101	100pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H271	270pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H102	1000pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H222	2200pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NZ81H103	10000pF 80/-20%	50Vdc	6A	-25 to +85°C

DSS6 Series Straight Type

Dimensions



Insertion Loss Characteristics (Main Items)



Continued on the following page.

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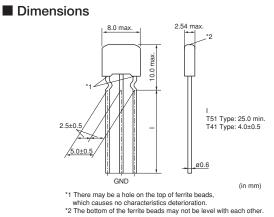
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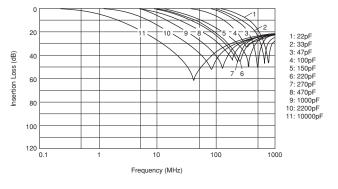
■ Rated Value (□: lead type/packaging code)

Part Number	Capacitance	Rated Voltage	Rated Current	Operating Temperature Range
DSS6NC52A220	22pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A330	33pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A470	47pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A101	100pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A151	150pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A221	220pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A271	270pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A471	470pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A102	1000pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NE52A222	2200pF 80/-20%	100Vdc	6A	-25 to +85°C
DSS6NZ82A103	10000pF ±30%	100Vdc	6A	-25 to +85°C

DSS6 Series Incrimp Type



Insertion Loss Characteristics (Main Items)



■ Rated Value (□: lead type/packaging code)

Part Number	Capacitance	Rated Voltage	Rated Current	Operating Temperature Range
DSS6NC52A220	22pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A330	33pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A470	47pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A101	100pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A151	150pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A221	220pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A271	270pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A471	470pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NC52A102	1000pF ±20%	100Vdc	6A	-25 to +85°C
DSS6NE52A222	2200pF 80/-20%	100Vdc	6A	-25 to +85°C
DSS6NZ82A103	10000pF ±30%	100Vdc	6A	-25 to +85°C

Continued on the following page.

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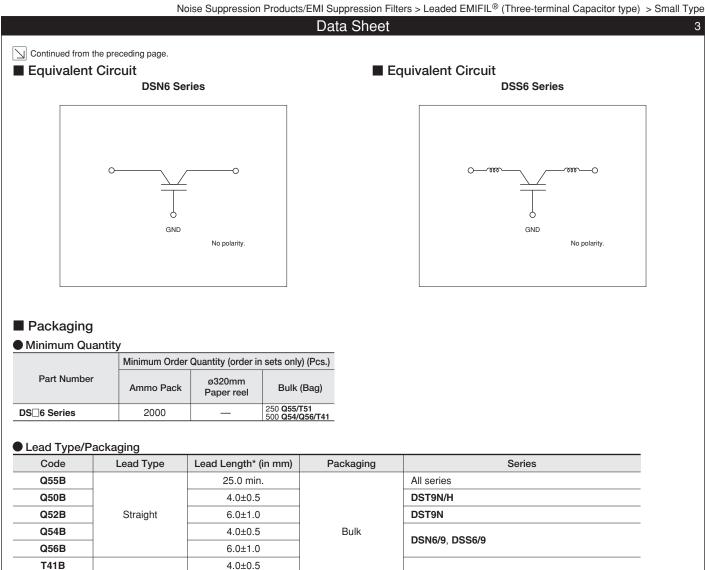
ANote:

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2



1416	Incrimp	4.0±0.5		DSS6N	
T51B		25.0 min.		03301	
Q91J		20.0±1.0	Paper Reel (ø320mm)		
Q92J	- Straight	16.5±1.0		DSS9N/H	
Q93J		18.5±1.0	-		
Q91A		20.0±1.0	Ammo Pack	DS⊡6, DSN9N/H	
Q92A		16.5±1.0		All series except DSS9N/H	
Q93A		18.5±1.0		All series except DSSENT	
U21A	Incrimp	16.5±1.0		DSS6N	
U31A		18.5±1.0		DSSON	

*Lead Distance between Reference and Bottom Planes except Bulk.

Continued on the following page.

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ANote:

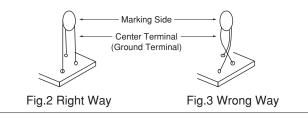
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Data Sheet 4 Continued from the preceding page. ■ Caution · Notice Rating Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance. Soldering and Mounting 1. Mounting holes should be designed as specified in these specifications. Other designs than those shown in these specifications may cause cracks in ceramics that may lead to smoking or firing. 2. DSN9/DST9/DSN9H/DST9H/VFS9V Series Mounting for PCB. (Applis only to bulk type.)

The form of the mounting hole of the bulk item is a triangle. The product should be inserted and soldered to each hole in the correct way as in Fig.2. (The center terminal and the other terminals become parallel when viewing the product from the side.) Smoking and firing maybe caused by incorrect mounting as in Fig.3. (The center terminal and the other terminals cross when viewing the product from the side.)



Continued on the following page.

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/Note:

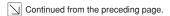
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Data Sheet

Notice



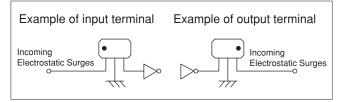
Storage and Operating Conditions

<Operating Environment>

- 1. Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.
- 2. Do not use products near water, oil or organic solvents. Avoid environments where dust or dirt may adhere to the product.
- <Storage and Handling Requirements>
- 1. Storage Period Use the products within 12 months after delivery. Solderability should be checked if this period is exceeded.
- 2. Storage Conditions
- (1) Storage temperature: -10 to 40 degrees C Relative humidity: 15 to 85% Avoid sudden changes in temperature and humidity.
- (2) Do not store products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.
- (3) When restoring taping type (BL01RN1A1F1J), please attach the spacer between the flanges of the reel. The spacer is corrugated paper that is attached when shipping.

<Using EMIGUARD[®] effectively>

1. Terminal (with mark) should be properly connected to the line of incoming electrostatic surge. (There is polarity.) Otherwise, no effect in ESD suppression can be expected (VFR3V).



2. Products should be used at rated voltage or less and rated current or less.

5

- 3. Products should not be applied for the absorption of surges that have large energy (e.g., induced lightning surges, switching surges) because it is designed for the absorption of electrostatic surges (VFR3V).
- 4. Electrostatic testing should be done on the following conditions (VFR3V).
 - $n \cdot [C / R \cdot V^2]^2 < 8.0 \times 10^5$
 - n: Times applied
 - C: Charging Capacitance (pF)
 - V: Testing Voltage (kV)
 - R: Charging Resistance (Ω)

Soldering and Mounting

1. Washing

Failure and degradation of a product are caused by the washing method. When you wash in conditions that are not in the mounting information, please contact Murata engineering.

2. Soldering

Reliability decreases with improper soldering methods. Please solder by the standard soldering conditions shown in the mounting information.

3. Other

Noise suppression levels resulting from Murata's EMI suppression filters EMIFIL® may vary, depending on the circuits and ICs used, type of noise, mounting pattern, lead wire length, mounting location, and other operating conditions. Be sure to check and confirm in advance the noise suppression effect of each filter, in actual circuits, etc. before applying the filter in a commercial-purpose equipment design.

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