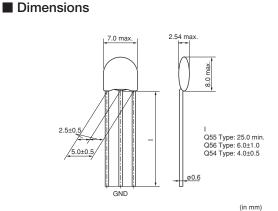
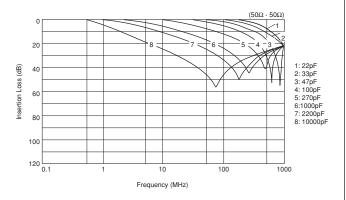
Data Sheet

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

DSN6 Series



Insertion Loss Characteristics (Main Items)

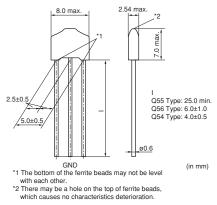


■ Rated Value (□: lead type/packaging code)

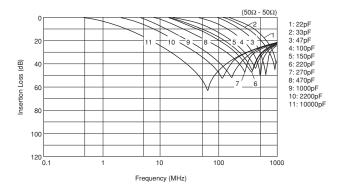
Part Number	Capacitance	Rated Voltage	Rated Current	Operating Temperature Range
DSN6NC51H220	22pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H330	33pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H470	47pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H101	100pF ±20%	50Vdc	6A	-25 to +85°C
DSN6NC51H271	270pF ±20%	50Vdc	6A	-25 to +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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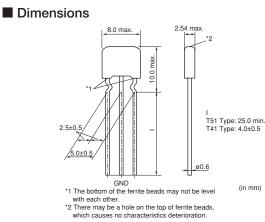
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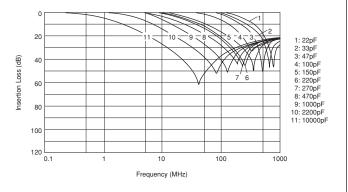
■ Rated Value (□: lead type/packaging code)

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

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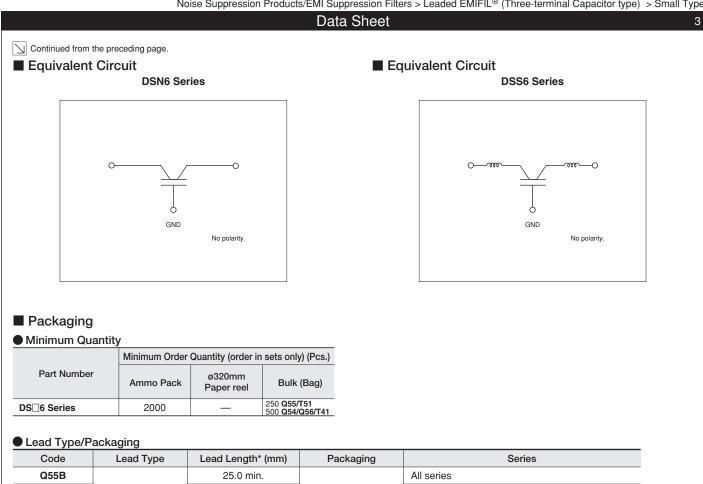
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2



Q55B	Straight	25.0 min.	All series DST9N/H DST9N Bulk DONON DOOCN	All series
Q50B		4.0±0.5		DST9N/H
Q52B		6.0±1.0		DST9N
Q54B		4.0±0.5		DONGN/ON DOOGN
Q56B		6.0±1.0		DSN6N/9N, DSS6N
T41B	Incrimp	4.0±0.5	DSS6N	Decen
T51B		25.0 min.		DSSON
Q91A		20.0±1.0		DS□6N, DSN9N/H, DSS1N
Q92A	Straight	16.5±1.0		
Q93A		18.5±1.0	Ammo Pack	DS⊡6N, DS⊡9N/H
U21A	la silara	16.5±1.0	1	Decen
U31A	Incrimp	18.5±1.0	1	DSS6N

*Lead Distance between Reference and Bottom Planes Except for Bulk.

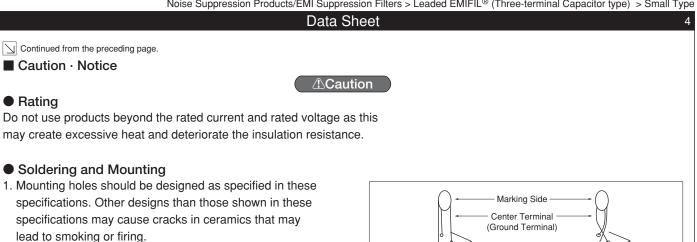
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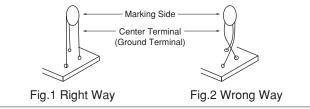
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2. DSN9/DST9/DSN9H/DST9H/VFS9V Series Mounting for PCB. (Applis only to bulk type.)

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.1. (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.2. (The center terminal and the other terminals cross when viewing the product from the side.)



3. Take care not to apply any mechanical stress to product body at the lead terminal bending process for product angle adjustment after insertion.

For DST9, please do not bend the lead terminal at the point between the dielectric part and the ferrite bead.

Continued on the following page.

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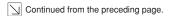
/Note:

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Data Sheet

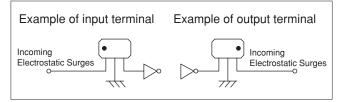
Notice



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>
- 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>
- 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.

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- 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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