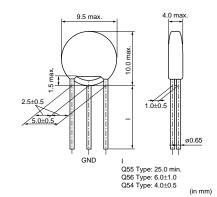
Noise Suppression Products/EMI Suppression Filters > Leaded EMIFIL® (Capacitor type) > Standard Type

Data Sheet

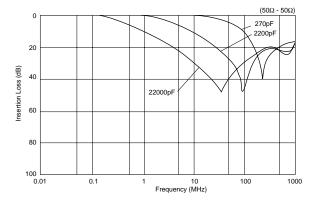
Leaded EMIFIL[®] (Capacitor type) Standard Type DSN9N/DSS9N/DST9N Series

DSN9N Series

Dimensions



■ Insertion Loss Characteristics (Main Items)



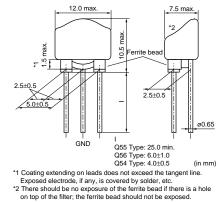
■ Rated Value (□: lead type/packaging code)

Part Number	Capacitance	Rated Voltage	Rated Current	Operating Temperature Range
DSN9NC52A271	270pF ±20%	100Vdc	7A	-25 to +85°C
DSN9NC52A222	2200pF ±20%	100Vdc	7A	-25 to +85°C
DSN9NC51H223	22000pF 50/-20%	50Vdc	7A	-25 to +85°C

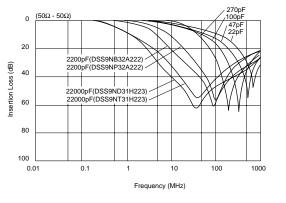
Rated current is 6A for taping type and its lead diameter is phi 0.6mm and three terminal in line arrangement.

DSS9N Series

Dimensions



Insertion Loss Characteristics (Main Items)



Continued on the following page.

• This data sheet is applied for Lead EMIFIL[®] Capacitor Type used for General Electronics equipment for your design.

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Data Sheet

Continued from the preceding page.

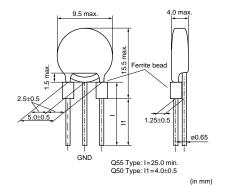
■ Rated Value (□: lead type/packaging code)

Part Number	Capacitance	Rated Voltage	Rated Current	Operating Temperature Range
DSS9NC52A220	22pF ±20%	100Vdc	7A	-25 to +85°C
DSS9NC52A470	47pF ±20%	100Vdc	7A	-25 to +85°C
DSS9NC52A101	100pF ±20%	100Vdc	7A	-25 to +85°C
DSS9NC52A271	270pF ±20%	100Vdc	7A	-25 to +85°C
DSS9NC52A222	2200pF ±20%	100Vdc	7A	-25 to +85°C
DSS9NP32A222	2200pF ±20%	100Vdc	7A	-25 to +85°C
DSS9NC51H223	22000pF 50/-20%	50Vdc	7A	-25 to +85°C
DSS9NT31H223	22000pF 50/-20%	50Vdc	7A	-25 to +85°C

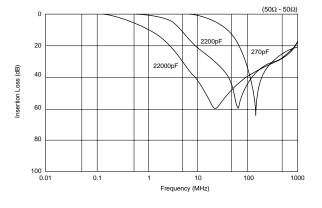
Rated current is 6A for taping type and its lead diameter is phi 0.6mm and three terminal in line arrangement. DSS9NP32A222/DSS9NT31H223 are low distortion types for audio IF circuits.

DST9N Series

Dimensions



■ Insertion Loss Characteristics (Main Items)



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

Part Number	Capacitance	Rated Voltage	Rated Current	Operating Temperature Range
DST9NC52A271	270pF ±20%	100Vdc	7A	-25 to +85°C
DST9NC52A222	2200pF ±20%	100Vdc	7A	-25 to +85°C
DST9NC51H223	22000pF 50/-20%	50Vdc	7A	-25 to +85°C

Rated current is 6A for taping type and its lead diameter is phi 0.6mm and three terminal in line arrangement.

Continued on the following page.

• This data sheet is applied for Lead EMIFIL® Capacitor Type used for General Electronics equipment for your design.

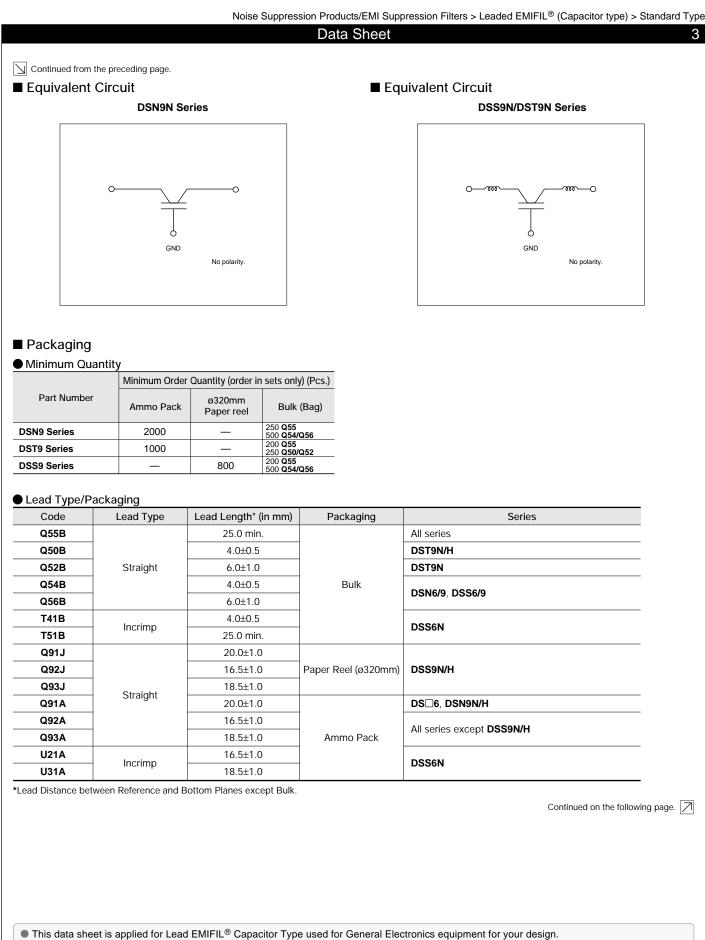
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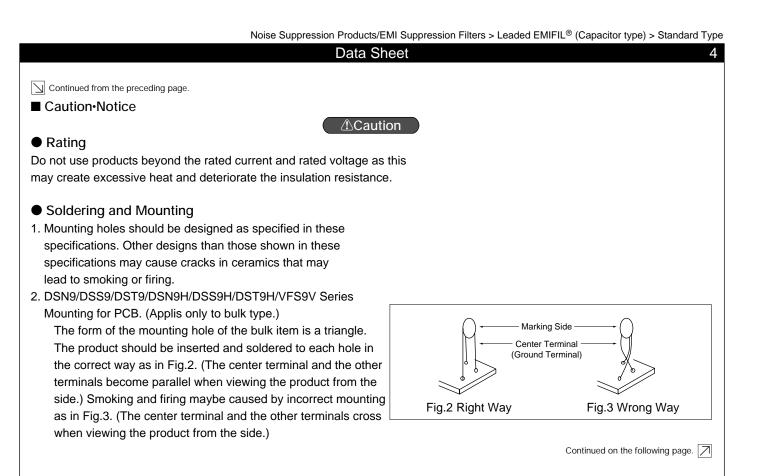
2



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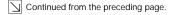
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Data Sheet

Notice



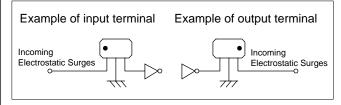
Storage and Operating Conditions

<Operating Environment>

- 1. Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.
- 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.

5

- 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).
- Electrostatic testing should be done on the following conditions (VFR3V).
 - n [C / R V²]² < 8.0 ×10⁵
 - 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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