⚠Note Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this PDF catalog to prevent smoking and/or burning, etc.
This catalog has only typical specifications. Therefore, you are requested to approve our product specifications or to transact the approval sheet for product specifications before ordering.
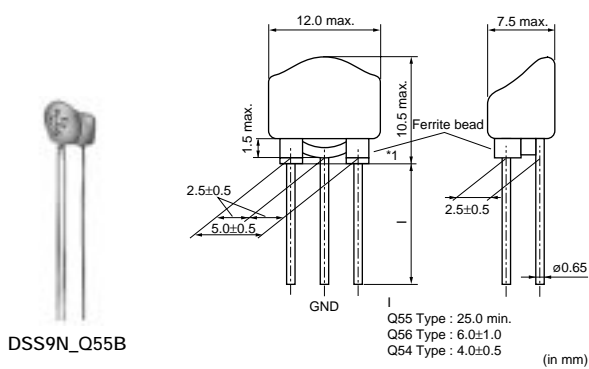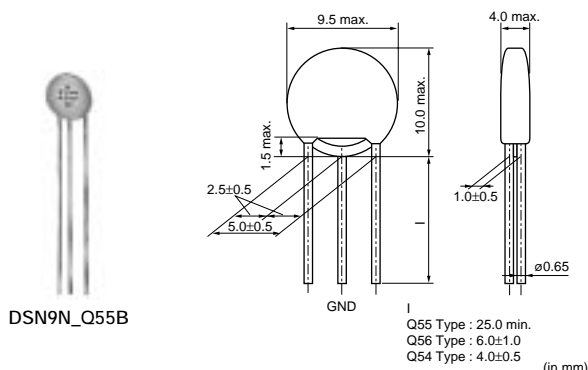
C31E11.pdf 04.3.8

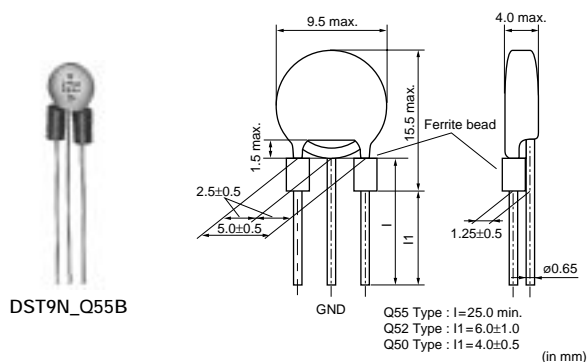# On-Board Type (DC) EMI Suppression Filters (EMIFIL®)

muRata

Disc Type EMIFIL® Broad Type DSN9/DSS9/DST9 Series

■ Features

DS_9 is a basic type EMI suppression filter which can obtain high insertion loss in a wide frequency range. Its three terminal structure enables nice high frequency performance. DSS9NP32A222/DSS9NT31H223 are lost distortion types for audio circuits.
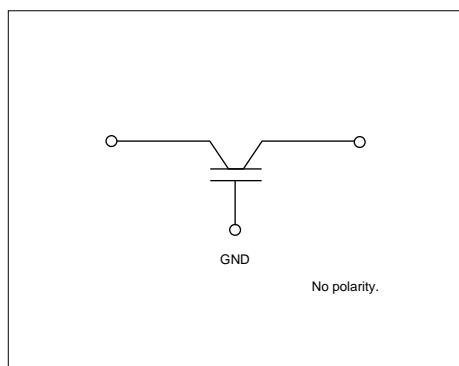
DSN9N_Q55B

Q55 Type : 25.0 min.
Q56 Type : 6.0±1.0
Q54 Type : 4.0±0.5
(in mm)

DSS9N_Q55B

Q55 Type : 25.0 min.
Q56 Type : 6.0±1.0
Q54 Type : 4.0±0.5
(in mm)

*1 Bottom of the ferrite beads may not be level with each other.

DST9N_Q55B

Q55 Type : I=25.0 min.
Q52 Type : I1=6.0±1.0
Q50 Type : I1=4.0±0.5
(in mm)

DSN9 Series

Part Number	Capacitance (pF)	Rated Voltage (Vdc)	Rated Current (A)	Operating Temperature Range (°C)
DSN9NC52A271	270 +20%,-20%	100	7	-25 to +85
DSN9NC52A222	2200 +20%,-20%	100	7	-25 to +85
DSN9NC51H223	22000 +50%,-20%	50	7	-25 to +85
DSN9NC51C104	100000 +20%,-20%	16	7	-25 to +85

■ Equivalent Circuit

GND

No polarity.

■ Insertion Loss Characteristics (Typical)

(50Ω - 50Ω)

270pF
2200pF
22000pF
100000pF

Insertion Loss (dB)
Frequency (MHz)

muRata

123

⚠Note Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this PDF catalog to prevent smoking and/or burning, etc.
This catalog has only typical specifications. Therefore, you are requested to approve our product specifications or to transact the approval sheet for product specifications before ordering.

C31E11.pdf 04.3.8

Built-in Ferrite Beads DSS9 Series

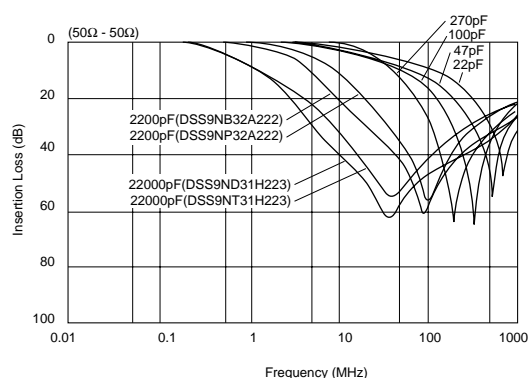| Part Number	Capacitance (pF)	Rated Voltage (Vdc)	Rated Current (A)	Operating Temperature Range (°C)
DSS9NC52A220	22 +20%,-20%	100	7	-25 to +85
DSS9NC52A470	47 +20%,-20%	100	7	-25 to +85
DSS9NC52A101	100 +20%,-20%	100	7	-25 to +85
DSS9NC52A271	270 +20%,-20%	100	7	-25 to +85
DSS9NC52A222	2200 +20%,-20%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

Rated current is 6A for taping type.
DSS9NP32A222/DSS9NT31H223 are low distortion types for audio IF circuits.
Please refer to Part Numbering for Type and Length of Lead.

■ Equivalent Circuit

GND
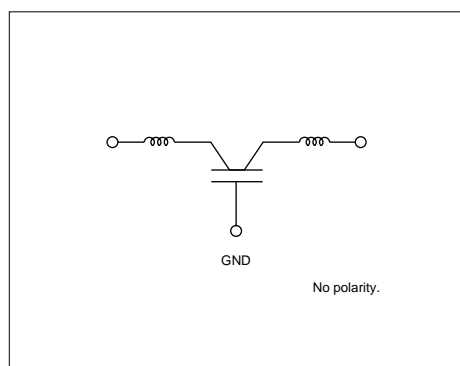
No polarity.
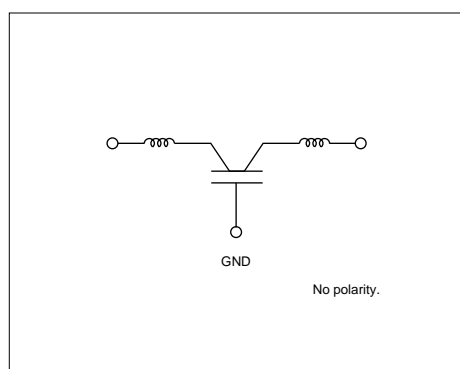
■ Insertion Loss Characteristics (Typical)

With Ferrite Beads DST9 Series

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

Rated current is 6A for taping type.
Please refer to Part Numbering for Type and Length of Lead.

■ Equivalent Circuit

GND

No polarity.

■ Insertion Loss Characteristics (Typical)

muRata