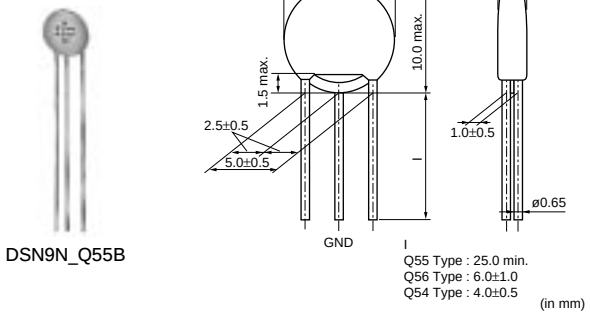
On-Board Type (DC) EMI Suppression Filters (EMIFIL®)

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 3-terminal structure enables nice high frequency performance. DSS9NP32A222/DSS9NT31H223 are low distortion type for audio circuits.

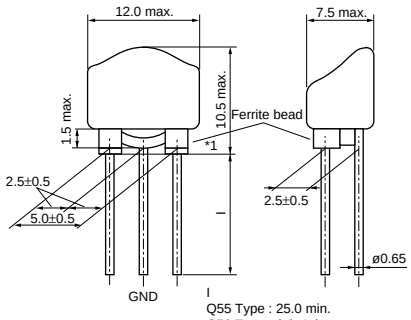


DSN9N_Q55B

Q55 Type : 25.0 min.
Q56 Type : 6.0±1.0
Q54 Type : 4.0±0.5

(in mm)

DSS9N_Q55B

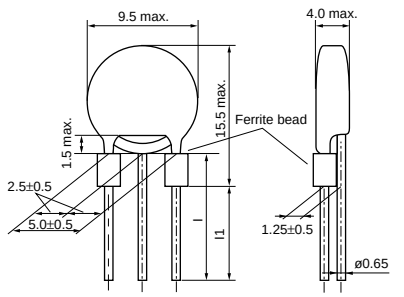


Q55 Type : 25.0 min.
Q56 Type : 6.0±1.0
Q54 Type : 4.0±0.5

(in mm)

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

DST9N_Q55B



Q55 Type : l=25.0 min.
Q52 Type : l1=6.0±1.0
Q50 Type : l1=4.0±0.5

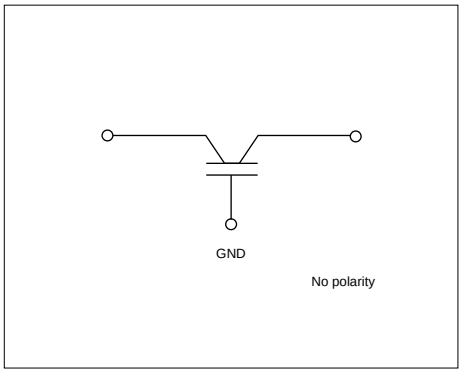
(in mm)

DSN9 Series

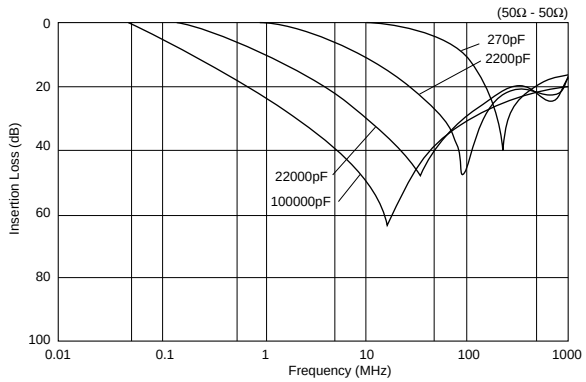
Part Number	Capacitance (pF)	Rated Voltage (Vdc)	Rated Current (A)	Operating Temperature Range (°C)
DSN9NC52A271	270 +20%,-20%	100	7	-25 to 85
DSN9NC52A222	2200 +20%,-20%	100	7	-25 to 85
DSN9NC51H223	22000 +50%,-20%	50	7	-25 to 85
DSN9NC51C104	100000 +20%,-20%	16	7	-25 to 85

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

■ Equivalent Circuit



■ Insertion Loss Characteristics (Typical)



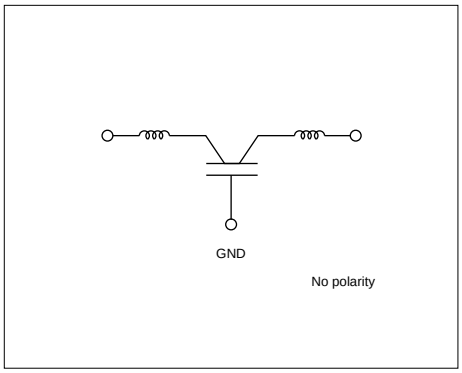
5

Built-in Ferrite Beads DSS9 Series

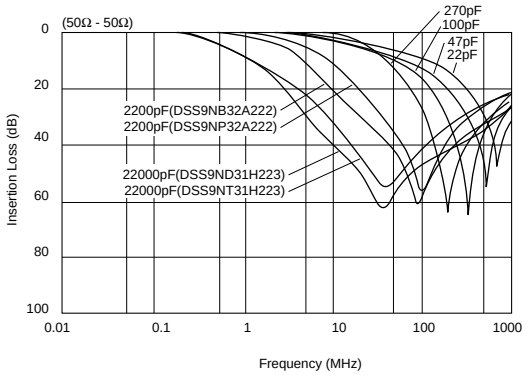
Part Number	Capacitance (pF)	Rated Voltage (Vdc)	Rated Current (A)	Operating Temperature Range (°C)
DSS9NC52A220	22 +20%,-20%	100	7	-25 to 85
DSS9NC52A470	47 +20%,-20%	100	7	-25 to 85
DSS9NC52A101	100 +20%,-20%	100	7	-25 to 85
DSS9NC52A271	270 +20%,-20%	100	7	-25 to 85
DSS9NC52A222	2200 +20%,-20%	100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



■ Insertion Loss Characteristics (Typical)

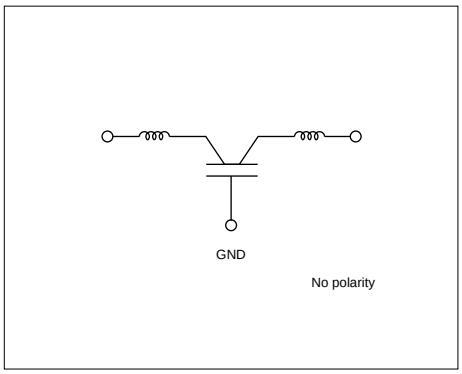


With Ferrite Beads DST9 Series

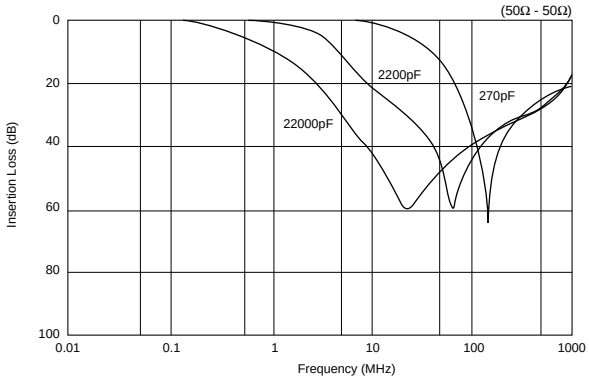
Part Number	Capacitance (pF)	Rated Voltage (Vdc)	Rated Current (A)	Operating Temperature Range (°C)
DST9NC52A271	270 +20%,-20%	100	7	-25 to 85
DST9NC52A222	2200 +20%,-20%	100	7	-25 to 85
DST9NC51H223	22000 +50%,-20%	50	7	-25 to 85

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

■ Equivalent Circuit



■ Insertion Loss Characteristics (Typical)



5