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EMI Suppression Filters (Lead Type EMIFIL®)



Disc Type EMIFIL[®] Part Numbering

| Disc Type EMIFIL® |) | | | | | | | | |
|-------------------|----|-----|-----|------|--------|------|-------|-----|---|
| (Part Number) | DS | | | | | | 271 | Q55 | B |
| Product ID | U | 0 | 0 | 9 | • | U | U | 0 | 9 |
| Product ID | | | | | | | | | |
| DS | | Thr | ee- | term | ninals | Сара | citor | | |
| | | | | | | | | | |

2 Structure

| Code | Structure |
|------|-----------------------------|
| N | No Ferrite Beads Type |
| S | Built-in Ferrite Beads Type |
| т | with Ferrite Beads Type |

Style

| Code | Style |
|------|----------------------|
| 6 | Diameter 8.0mm max. |
| 9 | Diameter 12.0mm max. |

4Category

| Code | Category | | | | |
|------|-----------------|--|--|--|--|
| N | for General Use | | | | |
| н | for Heavy-duty | | | | |

5Temperature Characteristics

| - 1 | |
|-------|--|
| Code | Capacitance Change |
| B3/P3 | ±10% (Temperature Range: -25°C to +85°C) |
| C5 | ±22% (Temperature Range: -25°C to +85°C) |
| Т3 | +20/-30% (Temperature Range: -25°C to +85°C) |
| E5 | +22/-56% (Temperature Range: -25°C to +85°C) |
| F3 | +30/-80% (Temperature Range: -25°C to +85°C) |
| Z8 | +30/-85% (Temperature Range: -10°C to +60°C) |

6 Rated Voltage

| Code | Rated Voltage |
|------|---------------|
| 1C | 16V |
| 1H | 50V |
| 2A | 100V |
| 2E | 250V |

Capacitance

Expressed by three alphanumerics. The unit is in pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two figures.

8Lead Type/9Packaging Code Lead Type Lead Length* (mm) Packaging Series Q55B 25.0 min. All series Q50B DST9N/H 4.0±0.5 Q52B Straight 6.0±1.0 DST9N Q54B 4.0±0.5 Bulk DSN6N/9N, DSS6N/9N, DSS9H Q56B 6.0±1.0 T41B 4.0±0.5 Incrimp DSS6N T51B 25.0 min. Q91J 20.0±1.0 Q92J 16.5±1.0 Paper Reel (ø320mm) DSS9N/H Q93J 18.5±1.0 Straight DSIGN, DSN9N/H Q91A 20.0±1.0 Q92A 16.5±1.0 All series except DSS9N/H Q93A 18.5±1.0 Ammo Pack U21A 16.5±1.0 DSS6N Incrimp U31A 18.5±1.0

*Lead Distance between Reference and Bottom Planes except Bulk.





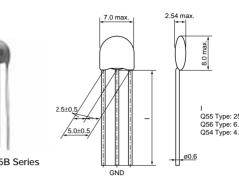
EMI Suppression Filters (Lead Type EMIFIL®)



Disc Type EMIFIL[®] DSN6/DSS6 Series

Features

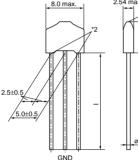
DS_6 is a compact, high performance lead type EMI suppression filter which can be mounted 2.54mm pitch. Its three terminal structure enables precise high frequency performance.



DSN6_Q55B Series

(in mm)





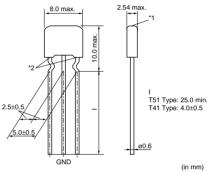
*1 There may be a hole on the top of ferrite beads,

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

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

(in mm)





Incrimp Type

*1 There may be a hole on the top of ferrite beads, which causes no characteristics deterioration. *2 Bottom of the ferrite beads may not be level with each other.

DSN6 Series

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

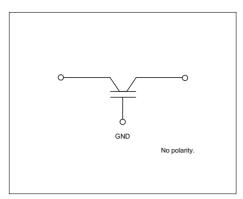
Please refer to Part Numbering for Type and Length of Lead.

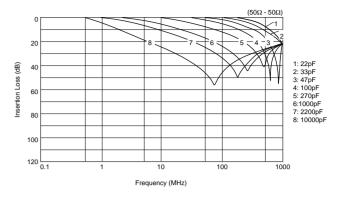


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09.3.30

Equivalent Circuit

Insertion Loss Characteristics



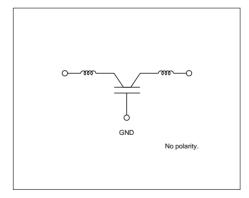


Built-in Ferrite Beads DSS6 Series Straight Type

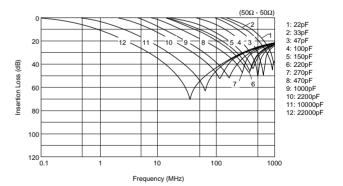
| Part Number | Capacitance (pF) | Rated Voltage (Vdc) | Rated Current (A) | Operating Temperature Range (°C) |
|--------------|---------------------|------------------------|----------------------|-------------------------------------|
| DSS6NC52A220 | 22 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A330 | 33 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A470 | 47 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A101 | 100 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A151 | 150 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A221 | 220 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A271 | 270 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A471 | 470 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A102 | 1000 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NE52A222 | 2200 +80%,-20% | 100 | 6 | -25 to +85 |
| DSS6NZ82A103 | 10000 +30%,-30% | 100 | 6 | -25 to +85 |
| DSS6NF31C223 | 22000 +80%,-20% | 16 | 6 | -25 to +85 |

Please refer to Part Numbering for Type and Length of Lead.

Equivalent Circuit



Insertion Loss Characteristics





2



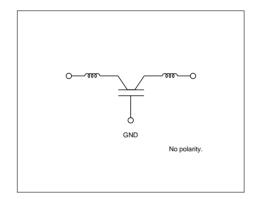
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Built-in Ferrite Beads DSS6 Series Incrimp Type

| Part Number | Capacitance (pF) | Rated Voltage (Vdc) | Rated Current (A) | Operating Temperature Range (°C) |
|--------------|---------------------|------------------------|----------------------|-------------------------------------|
| DSS6NC52A220 | 22 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A330 | 33 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A470 | 47 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A101 | 100 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A151 | 150 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A221 | 220 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A271 | 270 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A471 | 470 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NC52A102 | 1000 +20%,-20% | 100 | 6 | -25 to +85 |
| DSS6NE52A222 | 2200 +80%,-20% | 100 | 6 | -25 to +85 |
| DSS6NZ82A103 | 10000 +30%,-30% | 100 | 6 | -25 to +85 |
| DSS6NF31C223 | 22000 +80%,-20% | 16 | 6 | -25 to +85 |

Please refer to Part Numbering for Type and Length of Lead.

Equivalent Circuit



Insertion Loss Characteristics

