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

Ferrite Beads Inductors Part Numbering

Ferrite Beads Inductors

(Part Number) BL 02 RN 2 R1 M 2 B
❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

❶Product ID

Product ID	
BL	Ferrite Beads Inductors

❷Series

Code	Series
01	Beads ø3.6
02	Beads ø3.4
03	Beads ø2.3 max.

❸Beads Core Material

Code	Beads Core Material
RN	Standard Type

❹Numbers of Beads Core

Code	Numbers of Beads Core
1	1
2	2

❺Lead Type

Code	Lead Type
A1	Axial Straight Type
A2	Axial Crimp Type
R1	Radial Straight Type
R2	Radial Straight and wave formed Leads Type
R3	Radial Crimp Type

❻Lead Length, Space

Code	Lead Length, Space	Series
A	Bulk, Axial Type, 3.7mm	**BL01**
D	Bulk, Axial Type, 45.0mm	
E	Taping Axial Type, 26.0mm	
F	Taping, Axial Type, 52.0mm	
J	Bulk, Radial Type, 5.0mm	**BL02/BL03**
M	Bulk, Radial Type, 10.0mm	
N	Taping, Radial Type, 16.5mm	
P	Taping, Radial Type, 18.5mm	
Q	Taping, Radial Type, 20.0mm	

❼Lead Diameter

Code	Lead Diameter
1	ø0.60mm
2	ø0.65mm

❽Packaging

Code	Packaging	Series
A	Ammo Pack	**BL01/BL02/BL03**
B	Bulk	All series
J	Paper Reel (ø320mm)	**BL01**

4

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

Disc Type EMIFIL® Part Numbering

Disc Type EMIFIL®

(Part Number)

DS	S	9	H	B3	2E	271	Q55	B
❶	❷	❸	❹	❺	❻	❼	❽	❾

❶Product ID

Product ID	
DS	Three-terminals Capacitor

❷Structure

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

❸Style

Code	Style
6	Diameter 8.0mm Type
9	Diameter 9.5mm Type

❹Category

Code	Category
N	for General Use
H	for Heavy-duty

❺Temperature Characteristics

Code	Capacitance Change
B3	±10% (Temperature Range : -25˚C to +85˚C)
C5	±22% (Temperature Range : -25˚C to +85˚C)
D3	+20/-30% (Temperature Range : -25˚C to +85˚C)
E3	+20/-55% (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)

❻Rated Voltage

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

❼Capacitance

Expressed by three figures. 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.

❽Lead Type/❾Packaging

Code	Lead Type	Lead Length* (in mm)	Packaging	Series
Q55B	Straight	25.0 min.	Bulk	All series
Q50B		4.0±0.5		**DST9N/H**
Q52B		6.0±1.0		**DST9N**
Q54B		4.0±0.5		**DSN6/9**, **DSS6/9**
Q56B		6.0±1.0		
T41B	Incrimp	4.0±0.5		**DSS6N**
T51B		25.0 min.		
Q91J	Straight	20.0±1.0	Paper Reel (ø320mm)	**DSS9N/H**, **DST9N**
Q92J		16.5±1.0		**DSS9N/H**
Q93J		18.5±1.0		
Q91A		20.0±1.0	Ammo Pack	**DS□6**, **DSN9N/H**
Q92A		16.5±1.0		All series except **DSS9N/H**
Q93A		18.5±1.0		
U21A	Incrimp	16.5±1.0		**DSS6N**
U31A		18.5±1.0		

*****Lead Distance between Reference and Bottom Planes except Bulk.

4

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

Lead Type EMIGUARD® (EMIFIL® with Varistor Function) Part Numbering

Lead Type EMIGUARD® (EMIFIL® with Varistor Function)

(Part Number) VF ❶ | S ❷ | 6 ❸ | V ❹ | D8 ❺ | 1E ❻ | 221 ❼ | T51 ❽ | B ❾

❶Product ID

Product ID	
VF	EMIGUARD® Lead Type

❷Structure

Code	Structure
S	Built-in Ferrite Beads Type
R	with Resistance

❸Style

Code	Style
3	Size is expressed by a figure
6	
9	

❹Features

Code	Features
V	with Varistor Function

❺Temperature Characteristics

Code	Capacitance Change
D8	+20/-30% (Temperature Range : -40˚C～+105˚C)
D3	+20/-30% (Temperature Range : -25˚C～+85˚C)

❻Rated Voltage

Code	Rated Voltage
1E	25V
1B	12V

❼Capacitance

Expressed by three figures. 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.

❽Lead Type/❾Packaging

Code	Lead Type	Lead Length*	Packaging	Series
T51B	Incrimp	25.0mm min.	Bulk	**VFR3/VFS6**
U31A		18.5+/-1.0mm	Ammo Pack	
Q55B	Straight	25.0mm min.	Bulk	**VFS9**
Q91J		20.0+/-1.0mm	Paper Reel (ø320mm)	
Q92J		16.5+/-1.0mm		
Q93J		18.5+/-1.0mm		

*Lead Distance between Reference and Bottom Planes except Bulk.

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

Common Mode Choke Coils Part Numbering

Common Mode Choke Coils

(Part Number)

PL	T	09H	N	200	3R0	P	1	B
❶	❷	❸	❹	❺	❻	❼	❽	❾

❶Product ID

Product ID	
PL	Common Mode Choke Coils

❷Type

Code	Type
T	DC Type

❸Applications

Code	Applications
09H	for DC Line High-frequency Type
08C	for DC Line Type

❹Features

Code	Features
N	General Use

❺Inductance

Expressed by three figures. The unit is micro-henry (μH). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two figures. If there is a decimal point, it is expressed by the capital letter "**R**". In this case, all figures are significant digits. If inductance is less than 0.1 μH, the inductance code is expressed by a combination of two figures and the capital letter "**N**", and the unit of inductance is nano-henry (nH). The capital letter "**N**" indicates the unit of "nH", and also expresses a decimal point. In this case, all figures are significant digits.

❻Rated Current

Expressed by three figures. The unit is in amperes (A). A decimal point is expressed by the capital letter "**R**". In this case, all figures are significant digits.

❼Winding Mode

Code	Winding Mode
P	Aligned Winding Type
T	Troidal Type

❽Lead Dimensions

Code	Lead Dimensions
1	5mm
0	4mm

❾Packaging

Code	Packaging	Series
B	Bulk	All series

4