

Continued from the preceding page.

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
24	BLM18BD470SN1	20	47Ω±25%	500	0.30
25	BLM18BD121SN1	20	120Ω±25%	200	0.40
26	BLM18BD151SN1	20	150Ω±25%	200	0.40
27	BLM18BD221SN1	20	220Ω±25%	200	0.45
28	BLM18BD331SN1	20	330Ω±25%	200	0.50
29	BLM18BD421SN1	20	420Ω±25%	200	0.55
30	BLM18BD471SN1	20	470Ω±25%	200	0.55
31	BLM18BD601SN1	20	600Ω±25%	200	0.65
32	BLM18BD102SN1	20	1000Ω±25%	100	0.85
33	BLM18BD152SN1	20	1500Ω±25%	50	1.20
34	BLM18BD182SN1	20	1800Ω±25%	50	1.50
35	BLM18BD222SN1	20	2200Ω±25%	50	1.50
36	BLM18BD252SN1	20	2500Ω±25%	50	1.50
37	BLM18PG300SN1	20	30Ω (Typ.)	1000	0.05
38	BLM18PG330SN1	20	33Ω±25%	3000	0.025
39	BLM18PG600SN1	20	60Ω (Typ.)	500	0.10
40	BLM18PG121SN1	20	120Ω±25%	2000	0.05
41	BLM18PG181SN1	20	180Ω±25%	1500	0.09
42	BLM18PG221SN1	20	220Ω±25%	1400	0.10
43	BLM18PG331SN1	20	330Ω±25%	1200	0.15
44	BLM18PG471SN1	20	470Ω±25%	1000	0.20
45	BLM18KG260TN1	20	26Ω±25%	6000	0.007
46	BLM18KG300TN1	20	30Ω±25%	5000	0.010
47	BLM18KG700TN1	20	70Ω±25%	3500	0.022
48	BLM18KG101TN1	20	100Ω±25%	3000	0.030
49	BLM18KG121TN1	20	120Ω±25%	3000	0.030
50	BLM18KG221SN1	20	220Ω±25%	2200	0.050
51	BLM18KG331SN1	20	330Ω±25%	1700	0.080
52	BLM18KG471SN1	20	470Ω±25%	1500	0.130
53	BLM18KG601SN1	20	600Ω±25%	1300	0.150
54	BLM18SG260TN1	20	26Ω±25%	6000	0.007
55	BLM18SG700TN1	20	70Ω±25%	4000	0.020
56	BLM18SG121TN1	20	120Ω±25%	3000	0.025
57	BLM18SG221TN1	20	220Ω±25%	2500	0.040
58	BLM18SG331TN1	20	330Ω±25%	1500	0.070

●EKEMBL8GB (Chip Ferrite Beads 0603 Size / for High Frequency Type)

No.	Part Number	Quantity (pcs.)	Impedance (at 100MHz, 20 degrees C)	Impedance (at 1GHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	BLM18HG471SN1	20	470Ω±25%	600Ω (Typ.)	200	0.85
2	BLM18HG601SN1	20	600Ω±25%	700Ω (Typ.)	200	1.00
3	BLM18HG102SN1	20	1000Ω±25%	1000Ω (Typ.)	100	1.60
4	BLM18HB121SN1	20	120Ω±25%	500Ω±40%	200	0.50
5	BLM18HB221SN1	20	220Ω±25%	1100Ω±40%	100	0.80
6	BLM18HB331SN1	20	330Ω±25%	1600Ω±40%	50	1.20
7	BLM18HD471SN1	20	470Ω±25%	1000Ω (Typ.)	100	1.20
8	BLM18HD601SN1	20	600Ω±25%	1200Ω (Typ.)	100	1.50
9	BLM18HD102SN1	20	1000Ω±25%	1700Ω (Typ.)	50	1.80
10	BLM18HE601SN1	20	600Ω±25%	600Ω (Typ.)	800	0.25
11	BLM18HE102SN1	20	1000Ω±25%	1000Ω (Typ.)	600	0.35
12	BLM18HE152SN1	20	1500Ω±25%	1500Ω (Typ.)	500	0.50
13	BLM18HK331SN1	20	330Ω±25%	400Ω (Typ.)	200	0.50
14	BLM18HK471SN1	20	470Ω±25%	600Ω (Typ.)	200	0.70
15	BLM18HK601SN1	20	600Ω±25%	700Ω (Typ.)	100	0.90
16	BLM18HK102SN1	20	1000Ω±25%	1200Ω (Typ.)	50	1.50
17	BLM18EG101TN1	20	100Ω±25%	140Ω (Typ.)	2000	0.045
18	BLM18EG121SN1	20	120Ω±25%	145Ω (Typ.)	2000	0.04
19	BLM18EG221TN1	20	220Ω±25%	300Ω (Typ.)	1000	0.15
20	BLM18EG221SN1	20	220Ω±25%	260Ω (Typ.)	2000	0.05
21	BLM18EG331TN1	20	330Ω±25%	450Ω (Typ.)	500	0.21
22	BLM18EG391TN1	20	390Ω±25%	520Ω (Typ.)	500	0.30
23	BLM18EG471SN1	20	470Ω±25%	550Ω (Typ.)	500	0.21
24	BLM18EG601SN1	20	600Ω±25%	700Ω (Typ.)	500	0.35
25	BLM18GG471SN1	20	470Ω±25%	1800Ω±30%	200	1.30

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●EKEMBL21F (Chip Ferrite Beads 0805 Size / for Large-current P Type)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	BLM21AG121SN1	20	120 Ω ±25%	800	0.10
2	BLM21AG151SN1	20	150 Ω ±25%	800	0.10
3	BLM21AG221SN1	20	220 Ω ±25%	800	0.13
4	BLM21AG331SN1	20	330 Ω ±25%	700	0.16
5	BLM21AG471SN1	20	470 Ω ±25%	700	0.19
6	BLM21AG601SN1	20	600 Ω ±25%	600	0.21
7	BLM21AG102SN1	20	1000 Ω ±25%	500	0.28
8	BLM21BB050SN1	20	5 Ω ±25%	1000	0.02
9	BLM21BB600SN1	20	60 Ω ±25%	800	0.13
10	BLM21BB750SN1	20	75 Ω ±25%	700	0.16
11	BLM21BB121SN1	20	120 Ω ±25%	600	0.19
12	BLM21BB221SN1	20	220 Ω ±25%	500	0.26
13	BLM21BB331SN1	20	330 Ω ±25%	400	0.33
14	BLM21BB471SN1	20	470 Ω ±25%	400	0.40
15	BLM21BD121SN1	20	120 Ω ±25%	200	0.25
16	BLM21BD221SN1	20	220 Ω ±25%	200	0.25
17	BLM21BD421SN1	20	420 Ω ±25%	200	0.30
18	BLM21BD471SN1	20	470 Ω ±25%	200	0.35
19	BLM21BD601SN1	20	600 Ω ±25%	200	0.35
20	BLM21BD102SN1	20	1000 Ω ±25%	200	0.40
21	BLM21BD152SN1	20	1500 Ω ±25%	200	0.45
22	BLM21BD182SN1	20	1800 Ω ±25%	200	0.50
23	BLM21BD222SN1	20	2250 Ω (Typ.)	200	0.60
24	BLM21BD222TN1	20	2200 Ω ±25%	200	0.60
25	BLM21BD272SN1	20	2700 Ω ±25%	200	0.80
26	BLM21PG220SN1	20	22 Ω ±25%	6000	0.009
27	BLM21PG300SN1	20	30 Ω (Typ.)	4000	0.014
28	BLM21PG600SN1	20	60 Ω ±25%	3500	0.02
29	BLM21PG121SN1	20	120 Ω ±25%	3000	0.03
30	BLM21PG221SN1	20	220 Ω ±25%	2000	0.045
31	BLM21PG331SN1	20	330 Ω ±25%	1500	0.07
32	BLM31PG330SN1	20	33 Ω ±25%	6000	0.009
33	BLM31PG500SN1	20	50 Ω (Typ.)	3500	0.015
34	BLM31PG121SN1	20	120 Ω ±25%	3500	0.02
35	BLM31PG391SN1	20	390 Ω (Typ.)	2000	0.05
36	BLM31PG601SN1	20	600 Ω (Typ.)	1500	0.08
37	BLM41PG600SN1	20	60 Ω (Typ.)	6000	0.009
38	BLM41PG750SN1	20	75 Ω (Typ.)	3500	0.015
39	BLM41PG181SN1	20	180 Ω (Typ.)	3500	0.02
40	BLM41PG471SN1	20	470 Ω (Typ.)	2000	0.05
41	BLM41PG102SN1	20	1000 Ω (Typ.)	1500	0.09

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Memo



Chip EMIFIL®

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Chip Ferrite Bead

Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

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NF Series Introduction

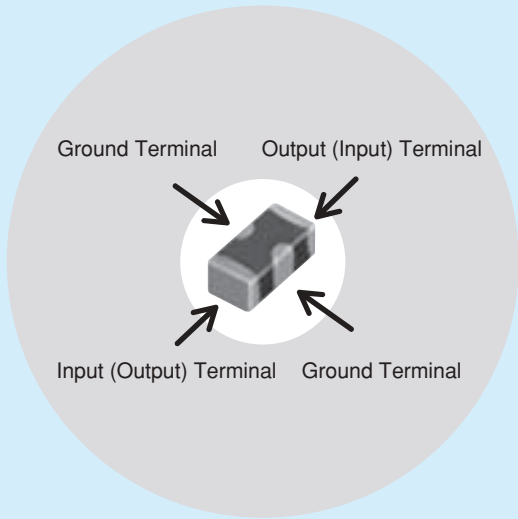
Chip Ferrite Bead

Chip EMIFIL®

Chip Common Mode Choke Coil

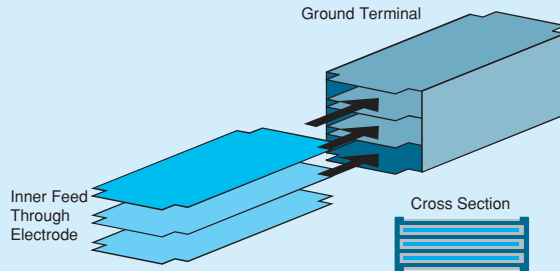
Block Type EMIFIL®














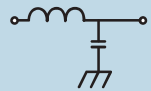








Microwave Absorber



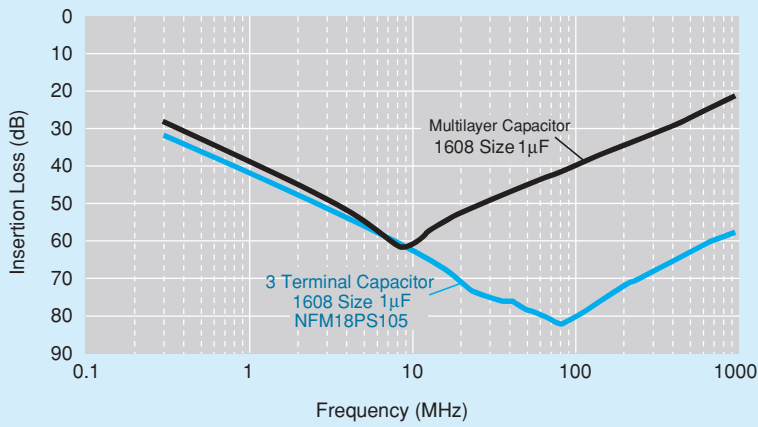
Example of 3 Terminal Capacitor Structure

Chip 3 terminal capacitor is chip shaped 3 terminal capacitor designed for noise suppression. Its inner structure like feed through capacitor makes its ground impedance quite low. Owing to this structure, 3 terminal capacitor has good noise suppression effect at high frequency range up to several hundred MHz.



Series	Equivalent Circuit	Part Number
NFM Series (3 terminal capacitor)		 NFM18CC  NFM21CC  NFM18PC  NFM18PS  NFM21PC
NFL / NFW Series (LC filter)		 NFL15ST  NFL18ST
		 NFL18SP  NFL21SP  NFW31SP
		 NFA21S  NFA18S
NFR Series (RC filter)		 NFR21GD  NFA31GD
NFE Series (Feed through capacitor with ferrite cores)		 NFE31PT  NFE61PT

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Insertion Loss Sample	Features	Classification		Applications	Example
		Code	Description		
	Standard of 3 terminal capacitor	NFM_CC	Standard type with varied capacitance	Noise suppression in low speed signal lines	<ul style="list-style-type: none"> Low speed interface lines, sensor
		NFM_PC	Meet large current, high capacitance available, for power lines	Noise suppression in power lines	<ul style="list-style-type: none"> Individual IC power lines
	Sharp insertion loss curve enables low damage to signal waveform	NFL_ST	T-type filter, effective in low impedance circuits	Noise suppression in high speed signal lines	<ul style="list-style-type: none"> High speed interface lines Bus lines LCD lines Camera I/Fs High speed analog lines RGB / D terminal
		NFL_SP	π -type filter, effective in high impedance circuits		
		NFW_SP	π -type filter, designed for low impedance circuits		
		NFA_SL	4-line array, suitable for bus lines or flat cables		
	Limit noise using resistor, also loop back to ground			Noise suppression in signal line with unstable ground	<ul style="list-style-type: none"> Interface lines Clock lines
	Meet large current, good high frequency performance because of its feed through structure			Noise suppression in power lines / low impedance lines	<ul style="list-style-type: none"> Various power lines sensor

Chip Ferrite Bead

Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

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NF Chip EMIFIL® Part Numbering

Capacitor

(Part Number) NF M 3D CC 102 R 1H 3 L

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Product ID

Product ID	
NF	Chip EMIFIL®

② Structure

Code	Structure
M	Capacitor Type
A	Capacitor Array Type

③ Dimensions (L×W)

Code	Dimensions (L×W)	EIA
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805
3D	3.2×1.25mm	1205
31	3.2×1.6mm	1206
41	4.5×1.6mm	1806
55	5.7×5.0mm	2220

④ Features

Code	Features
CC	Capacitor Type for Signal Lines
PC	Capacitor Type for Large Current
PS	High Insertion Loss Type for Large Current
KC	Capacitor Type for Very Large Current

⑤ Capacitance

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.

⑨ Packaging

Code	Packaging	Series
L	Embossed Taping (ø180mm Reel)	NFM3D/NFM31/NFM41/NFM55
B	Bulk	All series
D	Paper Taping (ø180mm Reel)	NFM18/NFM21/NFA□□CC

⑥ Characteristics

Code	Capacitance Change (Temperature Characteristics)
B	±10%, ±12.5%, +10/-13%
F	+30/-80%, +30/-84%
R	±15%, +15/-18%
U	-750 ±120ppm/°C
S	+350 to -1000ppm/°C

⑦ Rated Voltage

Code	Rated Voltage
0J	6.3V
1A	10V
1C	16V
1E	25V
1H	50V
2A	100V

⑧ Electrode/Others (NFM Series)

Code	Electrode	Series
3	Sn Plating	NFM (Except NFM55)
4	Solder Coating	NFM55

⑧ Number of Circuits (NFA□□CC Series)

Code	Number of Circuits
4	4 Circuits

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LC Combined (1)

(Part Number)

NF	L	18	ST	107	X	1C	3	L
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Product ID

Product ID	
NF	Chip EMIFIL®

② Structure

Code	Structure
L	Multilayer, LC Combined Type
W	Wire Wound, LC Combined Type
E	Block, LC Combined Type

③ Dimensions (L×W)

Code	Dimensions (L×W)	EIA
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805
31	3.2×1.6mm	1206
61	6.8×1.6mm	2606

④ Features

Code	Features
SP	π Circuit for Signal Lines
ST	T Circuit for Signal Lines
PT	T Circuit for Large Current

⑤ Cut-off Frequency (NFL/NFW Series)

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

⑤ Capacitance (NFE Series)

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.

⑨ Packaging

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	NFW31/NFE
L	Embossed Taping (ø180mm Reel)	NFW31/NFE
B	Bulk	NFL18/NFL21/NFE
D	Paper Taping (ø180mm Reel)	NFL15/NFL18/NFL21

⑥ Characteristics (NFL/NFW Series)

Code	Characteristics
H/X	Cut-off Frequency

⑥ Characteristics (NFE Series)

Code	Capacitance Change (Temperature Characteristics)
B	±10%
C	±20%, ±22%
D	+20/-30%, +22/-33%
E	+20/-55%, +22/-56%
F	+30/-80%, +22/-82%
R	±15%
U	-750 ±120ppm/ °C
Z	Other

⑦ Rated Voltage

Code	Rated Voltage
1A	10V
1C	16V
1E	25V
1H	50V
2A	100V

⑧ Electrode

Code	Electrode	Series
3/7	Sn Plating	NFL
4	Lead Free Solder Coating	NFW
9	Others	NFE

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LC Combined (2)



① Product ID

Product ID	
NF	Chip EMIFIL®

② Structure

Code	Structure
A	Array Type

③ Dimensions (L×W)

Code	Dimensions (L×W)	EIA
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805

④ Features (1)

Code	Features
SL	L Circuit for Signal Lines
SD	L Circuit for Differential Signal

⑤ Cut-off Frequency

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

⑥ Features (2)

Code	Features
X	Expressed by a letter
V	

⑦ Rated Voltage

Code	Rated Voltage
1A	10V

⑧ Number of Circuits

Code	Number of Circuits
4	4 Circuits

⑨ Dimensions (T)

Code	Dimensions (T)
5	Low Profile
8	Standard

⑩ Packaging

Code	Packaging
B	Bulk
L	Embossed Taping (ø180mm Reel)

RC Combined



① Product ID

Product ID	
NF	Chip EMIFIL®

② Structure

Code	Structure
R	RC Combined Type
A	RC Combined Array Type

③ Dimensions (L×W)

Code	Dimensions (L×W)	EIA
21	2.0×1.25mm	0805
31	3.2×1.6mm	1206

④ Features

Code	Features
GD	RC Combined Type for Signal Lines

⑧ Packaging

Code	Packaging	Series
L	Embossed Taping (ø180mm Reel)	NFR
B	Bulk	All Series
D	Paper Taping (ø180mm Reel)	NFA□□GD

⑤ Capacitance

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.

⑥ Resistance

Expressed by three-digit alphanumerics. The unit is in ohm (Ω). 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.

⑦ Electrode/Others (NFR Series)

Code	Electrode
2	Sn Plating

⑦ Number of Circuits (NFA□□GD Series)

Code	Number of Circuits
4	4 Circuits

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Chip Ferrite Bead
Chip EMIFIL®
Chip Common Mode Choke Coil
Block Type EMIFIL®
Microwave Absorber

Type	Size Code (Inch)	Thickness (mm)	Part Number	Rated Voltage	Capacitance	Nominal Cut-off Frequency	Rated Current	New	Kit	≥1A	≥3A	DTV	F _{low}	R _{eflow}	
Capacitor Type for Signal Lines	p122	0.6	NFM18CC220U1C3	16Vdc	22pF+20%-20%	-	400mA		Kit					R _{eflow}	
			NFM18CC470U1C3	16Vdc	47pF+20%-20%	-	400mA		Kit						R _{eflow}
			NFM18CC101R1C3	16Vdc	100pF+20%-20%	-	500mA		Kit						R _{eflow}
			NFM18CC221R1C3	16Vdc	220pF+20%-20%	-	500mA		Kit						R _{eflow}
			NFM18CC471R1C3	16Vdc	470pF+20%-20%	-	500mA		Kit						R _{eflow}
			NFM18CC102R1C3	16Vdc	1000pF+20%-20%	-	600mA		Kit						R _{eflow}
			NFM18CC222R1C3	16Vdc	2200pF+20%-20%	-	700mA		Kit						R _{eflow}
				NFM18CC223R1C3	16Vdc	2200pF+20%-20%	-	1000mA		Kit	≥1A				R _{eflow}
	0805	p123	0.85	NFM21CC220U1H3	50Vdc	22pF+20%-20%	-	700mA		Kit					R _{eflow}
				NFM21CC470U1H3	50Vdc	47pF+20%-20%	-	700mA		Kit					R _{eflow}
				NFM21CC101U1H3	50Vdc	100pF+20%-20%	-	700mA		Kit					R _{eflow}
				NFM21CC221R1H3	50Vdc	220pF+20%-20%	-	700mA		Kit					R _{eflow}
				NFM21CC471R1H3	50Vdc	470pF+20%-20%	-	1000mA		Kit		≥1A			R _{eflow}
				NFM21CC102R1H3	50Vdc	1000pF+20%-20%	-	1000mA		Kit		≥1A			R _{eflow}
				NFM21CC222R1H3	50Vdc	2200pF+20%-20%	-	1000mA		Kit		≥1A			R _{eflow}
				NFM21CC223R1H3	50Vdc	2200pF+20%-20%	-	2000mA		Kit	≥1A			R _{eflow}	
	1205	p124	0.7	NFM3DCC220U1H3	50Vdc	22pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM3DCC470U1H3	50Vdc	47pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM3DCC101U1H3	50Vdc	100pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM3DCC221R1H3	50Vdc	220pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM3DCC471R1H3	50Vdc	470pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM3DCC102R1H3	50Vdc	1000pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM3DCC222R1H3	50Vdc	2200pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM3DCC223R1H3	50Vdc	2200pF+50%-20%	-	300mA					F _{low}	R _{eflow}	
	1806	p125	1.0	NFM41CC220U2A3	100Vdc	22pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM41CC470U2A3	100Vdc	47pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM41CC101U2A3	100Vdc	100pF+50%-20%	-	300mA						F _{low}	R _{eflow}
				NFM41CC221U2A3	100Vdc	220pF+50%-20%	-	300mA						F _{low}	R _{eflow}
NFM41CC471R2A3				100Vdc	470pF+50%-20%	-	300mA						F _{low}	R _{eflow}	
NFM41CC102R2A3				100Vdc	1000pF+50%-20%	-	300mA						F _{low}	R _{eflow}	
NFM41CC222R2A3				100Vdc	2200pF+50%-20%	-	300mA						F _{low}	R _{eflow}	
			NFM41CC223R2A3	100Vdc	2200pF+50%-20%	-	300mA					F _{low}	R _{eflow}		
Capacitor Array Type for Signal Lines	p126	0.8	NFA31CC220S1E4	25Vdc	22pF+20%-20%	-	200mA		Kit					R _{eflow}	
			NFA31CC470S1E4	25Vdc	47pF+20%-20%	-	200mA		Kit					R _{eflow}	
			NFA31CC101S1E4	25Vdc	100pF+20%-20%	-	200mA		Kit					R _{eflow}	
			NFA31CC221S1E4	25Vdc	220pF+20%-20%	-	200mA		Kit					R _{eflow}	
			NFA31CC471R1E4	25Vdc	470pF+20%-20%	-	200mA		Kit					R _{eflow}	
			NFA31CC102R1E4	25Vdc	1000pF+20%-20%	-	200mA		Kit					R _{eflow}	
			NFA31CC222R1E4	25Vdc	2200pF+20%-20%	-	200mA		Kit					R _{eflow}	
			NFA31CC223R1C4	16Vdc	2200pF+20%-20%	-	200mA		Kit					R _{eflow}	

Continued on the following page.

Chip Ferrite Bead

Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

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Type	Size Code (Inch)	Thickness (mm)	Part Number	Rated Voltage	Capacitance	Nominal Cut-off Frequency	Rated Current	New	Kit	≥1A	≥3A	DTV	Flow	ReFlow	
Capacitor Type for Power Lines	0603	p112	NFM18PS474R0J3	6.3Vdc	0.47μF+20%-20%	-	2A		Kit	≥1A				ReFlow	
			NFM18PS105R0J3	6.3Vdc	1.0μF+20%-20%	-	2A		Kit	≥1A				ReFlow	
		p113	NFM18PC104R1C3	16Vdc	0.1μF+20%-20%	-	2A		Kit	≥1A					ReFlow
			NFM18PC224R0J3	6.3Vdc	0.22μF+20%-20%	-	2A		Kit	≥1A					ReFlow
			NFM18PC474R0J3	6.3Vdc	0.47μF+20%-20%	-	2A		Kit	≥1A					ReFlow
			NFM18PC105R0J3	6.3Vdc	1.0μF+20%-20%	-	4A		Kit	≥1A					ReFlow
	p115	NFM18PC225B0J3	6.3Vdc	2.2μF+20%-20%	-	2A		Kit	≥1A					ReFlow	
		NFM18PC225B1A3	10Vdc	2.2μF+20%-20%	-	4A		Kit	≥3A					ReFlow	
	0805	p116	NFM21PS106B0J3	6.3Vdc	10μF+20%-20%	-	4A	New	Kit	≥3A				ReFlow	
			NFM21PC104R1E3	25Vdc	0.1μF+20%-20%	-	2A		Kit	≥1A				ReFlow	
		NFM21PC224R1C3	16Vdc	0.22μF+20%-20%	-	2A		Kit	≥1A					ReFlow	
		NFM21PC474R1C3	16Vdc	0.47μF+20%-20%	-	2A		Kit	≥1A					ReFlow	
		NFM21PC105B1A3	10Vdc	1.0μF+20%-20%	-	4A		Kit	≥3A					ReFlow	
		NFM21PC105B1C3	16Vdc	1.0μF+20%-20%	-	4A		Kit	≥3A					ReFlow	
	1205	p117	NFM21PC225B0J3	6.3Vdc	2.2μF+20%-20%	-	4A		Kit	≥3A					ReFlow
			NFM21PC475B1A3	10Vdc	4.7μF+20%-20%	-	6A		Kit	≥3A					ReFlow
	1206	p118	NFM3DPC223R1H3	50Vdc	0.022μF+20%-20%	-	2A			≥1A			Flow	ReFlow	
			NFM31PC276B0J3	6.3Vdc	27μF+20%-20%	-	6A		Kit	≥3A				Flow	ReFlow
		p119	NFM31KC103R1H3	50Vdc	1000pF+20%-20%	-	10A	New	Kit	≥10A				Flow	ReFlow
			NFM31KC103R2A3	100Vdc	1000pF+20%-20%	-	10A	New	Kit	≥10A				Flow	ReFlow
			NFM31KC153R1H3	50Vdc	1500pF+20%-20%	-	10A	New	Kit	≥10A				Flow	ReFlow
			NFM31KC223R1H3	50Vdc	2200pF+20%-20%	-	10A	New	Kit	≥10A				Flow	ReFlow
	NFM31KC104R1H3	50Vdc	10000pF+20%-20%	-	6A	New		≥3A				Flow	ReFlow		
	1806	p120	NFM41PC204F1H3	50Vdc	0.2μF+80%-20%	-	2A		Kit	≥1A				Flow	ReFlow
NFM41PC155B1E3			25Vdc	1.5μF+20%-20%	-	6A		Kit	≥3A				Flow	ReFlow	
2220	p121	NFM55PC155F1H4	50Vdc	1.5μF+80%-20%	-	6A			≥3A				ReFlow		
LC Combined Type for Power Lines and Signal Lines	1206	p110	NFE31PT220R1E9	25Vdc	22pF+30%-30%	-	6A			≥3A				ReFlow	
			NFE31PT470C1E9	25Vdc	47pF+50%-20%	-	6A			≥3A				ReFlow	
			NFE31PT101C1E9	25Vdc	100pF+80%-20%	-	6A			≥3A					ReFlow
			NFE31PT221D1E9	25Vdc	220pF+50%-20%	-	6A			≥3A					ReFlow
			NFE31PT471F1E9	25Vdc	470pF+50%-20%	-	6A			≥3A					ReFlow
			NFE31PT152Z1E9	25Vdc	1500pF+50%-20%	-	6A		Kit	≥3A					ReFlow
	2606	p111	NFE31PT222Z1E9	25Vdc	2200pF+50%-50%	-	6A			≥3A					ReFlow
			NFE61PT330B1H9	50Vdc	33pF+30%-30%	-	2A			≥1A				Flow	ReFlow
			NFE61PT680B1H9	50Vdc	68pF+30%-30%	-	2A			≥1A				Flow	ReFlow
			NFE61PT101Z1H9	50Vdc	100pF+30%-30%	-	2A			≥1A				Flow	ReFlow
			NFE61PT181B1H9	50Vdc	180pF+30%-30%	-	2A			≥1A				Flow	ReFlow
			NFE61PT361B1H9	50Vdc	360pF+20%-20%	-	2A			≥1A				Flow	ReFlow
			NFE61PT681B1H9	50Vdc	680pF+30%-30%	-	2A			≥1A				Flow	ReFlow
			NFE61PT102E1H9	50Vdc	1000pF+80%-20%	-	2A		Kit	≥1A				Flow	ReFlow
NFE61PT472C1H9	50Vdc	4700pF+80%-20%	-	2A			≥1A				Flow	ReFlow			
LC Combined Multilayer Type for Signal Lines	0402	p127	NFL15ST157X0J3	6.3Vdc	22pF (Typ.)	150MHz	50mA	New	Kit					ReFlow	
			NFL15ST207X0J3	6.3Vdc	17pF (Typ.)	200MHz	50mA	New	Kit					ReFlow	
			NFL15ST307X0J3	6.3Vdc	12pF (Typ.)	300MHz	50mA	New	Kit					ReFlow	
			NFL15ST507X0J3	6.3Vdc	7pF (Typ.)	500MHz	50mA	New	Kit					ReFlow	
	0603	p128	NFL18ST506H1A3	10Vdc	110pF (Typ.)	50MHz	75mA		Kit			DTV		ReFlow	
			NFL18ST706H1A3	10Vdc	70pF (Typ.)	70MHz	75mA		Kit			DTV		ReFlow	
			NFL18ST107H1A3	10Vdc	50pF (Typ.)	100MHz	75mA		Kit			DTV		ReFlow	
			NFL18ST207H1A3	10Vdc	22pF (Typ.)	200MHz	100mA	New	Kit					ReFlow	
			NFL18ST307H1A3	10Vdc	16pF (Typ.)	300MHz	100mA	New	Kit					ReFlow	
			NFL18ST507H1A3	10Vdc	10pF (Typ.)	500MHz	100mA	New	Kit					ReFlow	
		p129	NFL18ST207X1C3	16Vdc	25pF+20%-20%	200MHz	150mA		Kit						ReFlow
			NFL18ST307X1C3	16Vdc	18pF+20%-20%	300MHz	200mA		Kit						ReFlow
			NFL18ST507X1C3	16Vdc	10pF+20%-20%	500MHz	200mA		Kit						ReFlow
			NFL18SP157X1A3	10Vdc	34pF+20%-20%	150MHz	100mA		Kit						ReFlow
p130	NFL18SP207X1A3	10Vdc	24pF+20%-20%	200MHz	100mA		Kit						ReFlow		
	NFL18SP307X1A3	10Vdc	19pF+20%-20%	300MHz	100mA		Kit						ReFlow		
	NFL18SP507X1A3	10Vdc	11pF+20%-20%	500MHz	100mA		Kit						ReFlow		

Continued on the following page.

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Type	Size Code (Inch)	Thickness (mm)	Part Number	Rated Voltage	Capacitance	Nominal Cut-off Frequency	Rated Current	New	Kit	$\geq 1A$	$\geq 3A$	DTV	F _{low}	R _{eFlow}			
LC Combined Multilayer Type for Signal Lines	p131	0805	0.85 NFL21SP106X1C3	16Vdc	670pF+20%-20%	10MHz	100mA		Kit					R _{eFlow}			
			0.85 NFL21SP206X1C7	16Vdc	240pF+20%-20%	20MHz	100mA		Kit						R _{eFlow}		
			0.85 NFL21SP506X1C3	16Vdc	84pF+20%-20%	50MHz	150mA		Kit						R _{eFlow}		
			0.85 NFL21SP706X1C3	16Vdc	76pF+20%-20%	70MHz	150mA		Kit						R _{eFlow}		
			0.85 NFL21SP107X1C3	16Vdc	44pF+20%-20%	100MHz	200mA		Kit						R _{eFlow}		
			0.85 NFL21SP157X1C3	16Vdc	28pF+20%-20%	150MHz	200mA		Kit						R _{eFlow}		
			0.85 NFL21SP207X1C3	16Vdc	22pF+20%-20%	200MHz	250mA		Kit						R _{eFlow}		
			0.85 NFL21SP307X1C3	16Vdc	19pF+10%-10%	300MHz	300mA		Kit						R _{eFlow}		
			0.85 NFL21SP407X1C3	16Vdc	16pF+10%-10%	400MHz	300mA		Kit					R _{eFlow}			
			0.85 NFL21SP507X1C3	16Vdc	12pF+10%-10%	500MHz	300mA		Kit					R _{eFlow}			
LC Combined Array Type for Signal Lines	p132	0603	0.6 NFA18SL137V1A45	10Vdc	-	130MHz	50mA		Kit			DTV		R _{eFlow}			
			0.6 NFA18SL187V1A45	10Vdc	-	180MHz	50mA		Kit			DTV		R _{eFlow}			
			0.6 NFA18SL207V1A45	10Vdc	-	200MHz	50mA		Kit				DTV		R _{eFlow}		
			0.6 NFA18SL227V1A45	10Vdc	-	220MHz	25mA		Kit				DTV		R _{eFlow}		
			0.5 NFA18SL307V1A45	10Vdc	-	300MHz	100mA		Kit						R _{eFlow}		
			0.5 NFA18SL357V1A45	10Vdc	-	350MHz	35mA		Kit						R _{eFlow}		
			0.5 NFA18SL407V1A45	10Vdc	-	400MHz	100mA		Kit						R _{eFlow}		
			0.5 NFA18SL487V1A45	10Vdc	-	480MHz	100mA		Kit						R _{eFlow}		
	p133			0.6 NFA18SL506X1A45	10Vdc	-	50MHz	25mA		Kit				R _{eFlow}			
	p134			0.6 NFA18SD187X1A45	10Vdc	-	180MHz	25mA		Kit			DTV		R _{eFlow}		
				0.6 NFA18SD207X1A45	10Vdc	-	200MHz	25mA		Kit			DTV		R _{eFlow}		
	p135	0805		0.5 NFA21SL287V1A45	10Vdc	-	280MHz	100mA		Kit					R _{eFlow}		
				0.5 NFA21SL317V1A45	10Vdc	-	310MHz	100mA		Kit					R _{eFlow}		
				0.5 NFA21SL337V1A45	10Vdc	-	330MHz	100mA		Kit					R _{eFlow}		
				0.85 NFA21SL287V1A48	10Vdc	-	280MHz	100mA		Kit					R _{eFlow}		
				0.85 NFA21SL317V1A48	10Vdc	-	310MHz	100mA		Kit					R _{eFlow}		
				0.85 NFA21SL337V1A48	10Vdc	-	330MHz	100mA		Kit					R _{eFlow}		
			p136			0.5 NFA21SL207X1A45	10Vdc	-	200MHz	100mA		Kit					R _{eFlow}
						0.5 NFA21SL307X1A45	10Vdc	-	300MHz	100mA		Kit					R _{eFlow}
				0.85 NFA21SL506X1A48	10Vdc	-	50MHz	20mA		Kit					R _{eFlow}		
		0.85 NFA21SL806X1A48		10Vdc	-	80MHz	20mA		Kit					R _{eFlow}			
			0.85 NFA21SL207X1A48	10Vdc	-	200MHz	100mA		Kit					R _{eFlow}			
			0.85 NFA21SL307X1A48	10Vdc	-	300MHz	100mA		Kit					R _{eFlow}			
LC Combined Wire Wound Type for Signal Lines	p137	1206	1.8 NFW31SP106X1E4	-	-	10MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP206X1E4	-	-	20MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP506X1E4	-	-	50MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP107X1E4	-	-	100MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP157X1E4	-	-	150MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP207X1E4	-	-	200MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP307X1E4	-	-	300MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP407X1E4	-	-	400MHz	-		Kit				F _{low}	R _{eFlow}			
			1.8 NFW31SP507X1E4	-	-	500MHz	-		Kit			F _{low}	R _{eFlow}				
RC Combined Type for Signal Lines	p139	0805	0.5 NFR21GD1002202	50Vdc	10pF+20%-20%	-	50mA							R _{eFlow}			
			0.5 NFR21GD1004702	50Vdc	10pF+20%-20%	-	35mA								R _{eFlow}		
			0.5 NFR21GD4702202	50Vdc	47pF+20%-20%	-	50mA								R _{eFlow}		
			0.5 NFR21GD4704702	50Vdc	47pF+20%-20%	-	35mA									R _{eFlow}	
			0.5 NFR21GD4706802	50Vdc	47pF+20%-20%	-	30mA									R _{eFlow}	
			0.5 NFR21GD4701012	50Vdc	47pF+20%-20%	-	25mA									R _{eFlow}	
			0.5 NFR21GD1012202	50Vdc	100pF+20%-20%	-	50mA									R _{eFlow}	
			0.5 NFR21GD1014702	50Vdc	100pF+20%-20%	-	35mA									R _{eFlow}	
			0.5 NFR21GD1016802	50Vdc	100pF+20%-20%	-	30mA									R _{eFlow}	
			0.5 NFR21GD1011012	50Vdc	100pF+20%-20%	-	25mA							R _{eFlow}			
RC Combined Array Type for Signal Lines	p140	1206	0.8 NFA31GD1006R84	6Vdc	10pF+20%-20%	-	50mA							R _{eFlow}			
			0.8 NFA31GD1004704	6Vdc	10pF+20%-20%	-	20mA								R _{eFlow}		
			0.8 NFA31GD1001014	6Vdc	10pF+20%-20%	-	15mA								R _{eFlow}		
			0.8 NFA31GD4706R84	6Vdc	47pF+20%-20%	-	50mA								R _{eFlow}		
			0.8 NFA31GD4703304	6Vdc	47pF+20%-20%	-	20mA								R _{eFlow}		
			0.8 NFA31GD4704704	6Vdc	47pF+20%-20%	-	20mA								R _{eFlow}		
			0.8 NFA31GD4701014	6Vdc	47pF+20%-20%	-	15mA								R _{eFlow}		
			0.8 NFA31GD1016R84	6Vdc	100pF+20%-20%	-	50mA								R _{eFlow}		
			0.8 NFA31GD1014704	6Vdc	100pF+20%-20%	-	20mA								R _{eFlow}		
			0.8 NFA31GD1011014	6Vdc	100pF+20%-20%	-	15mA							R _{eFlow}			

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Chip Ferrite Bead

Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

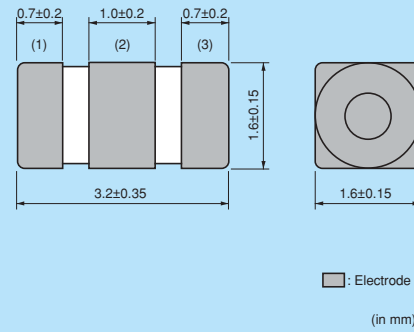
NFE31P Series (1206 Size)



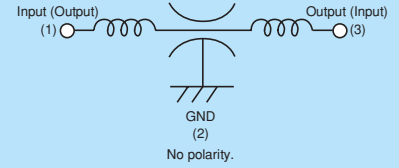
Meet 6A, T-type filter with built-in ferrite bead.



Dimensions



Equivalent Circuit



Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	2000
K	330mm Reel Embossed Tape	8000
B	Bulk(Bag)	500

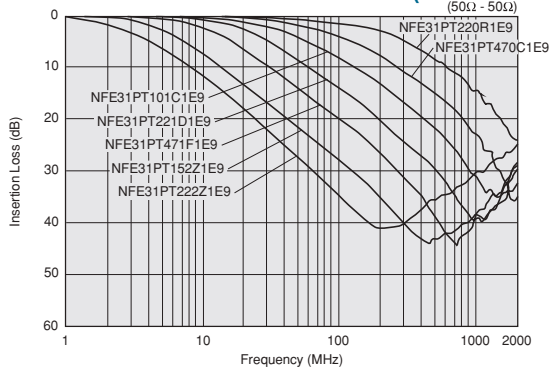
Refer to pages from p.142 to p.147 for mounting information.

Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFE31PT220R1E9□	22pF ±30%	6A	25Vdc	1000M ohm	-40°C to +85°C	≥3A
NFE31PT470C1E9□	47pF +50/-20%	6A	25Vdc	1000M ohm	-40°C to +85°C	≥3A
NFE31PT101C1E9□	100pF +80/-20%	6A	25Vdc	1000M ohm	-40°C to +85°C	≥3A
NFE31PT221D1E9□	220pF +50/-20%	6A	25Vdc	1000M ohm	-40°C to +85°C	≥3A
NFE31PT471F1E9□	470pF +50/-20%	6A	25Vdc	1000M ohm	-40°C to +85°C	≥3A
NFE31PT152Z1E9□	1500pF +50/-20%	6A	25Vdc	1000M ohm	-40°C to +85°C	Kit ≥3A
NFE31PT222Z1E9□	2200pF ±50%	6A	25Vdc	1000M ohm	-40°C to +85°C	≥3A

Number of Circuit: 1

Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead

Chip EMIFIL®
Universal Type [Power Lines/Signal Lines]

Chip Common Mode Choke Coil


Block Type EMIFIL®

Microwave Absorber

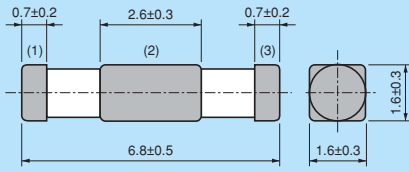
NFE61P Series (2606 Size)



T-type filter with built-in ferrite bead.

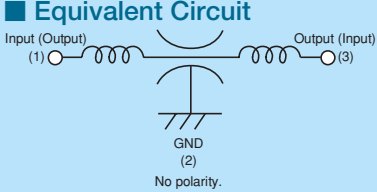


■ Dimensions



□ : Electrode
(in mm)

■ Equivalent Circuit



■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	2500
K	330mm Reel Embossed Tape	8000
B	Bulk (Bag)	500

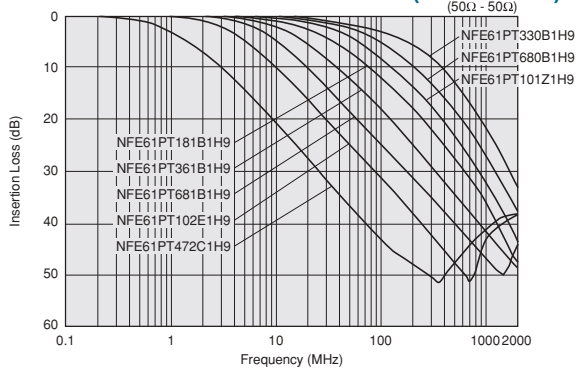
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFE61PT330B1H9□	33pF ±30%	2A	50Vdc	1000M ohm	-40°C to +85°C	≥1A
NFE61PT680B1H9□	68pF ±30%	2A	50Vdc	1000M ohm	-40°C to +85°C	≥1A
NFE61PT101Z1H9□	100pF ±30%	2A	50Vdc	1000M ohm	-40°C to +85°C	≥1A
NFE61PT181B1H9□	180pF ±30%	2A	50Vdc	1000M ohm	-40°C to +85°C	≥1A
NFE61PT361B1H9□	360pF ±20%	2A	50Vdc	1000M ohm	-40°C to +85°C	≥1A
NFE61PT681B1H9□	680pF ±30%	2A	50Vdc	1000M ohm	-40°C to +85°C	≥1A
NFE61PT102E1H9□	1000pF +80/-20%	2A	50Vdc	1000M ohm	-40°C to +85°C	Kit ≥1A
NFE61PT472C1H9□	4700pF +80/-20%	2A	50Vdc	1000M ohm	-40°C to +85°C	≥1A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead

Universal Type [Power Lines/Signal Lines] Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

NFM18PS Series (0603 Size)

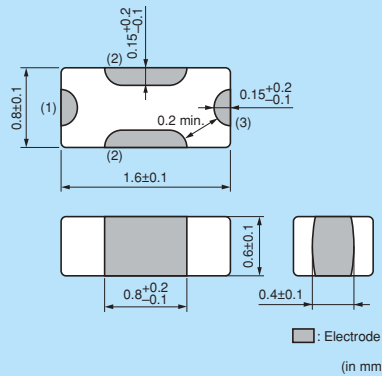


3-terminal capacitor for power lines whose ground impedance has reduced.

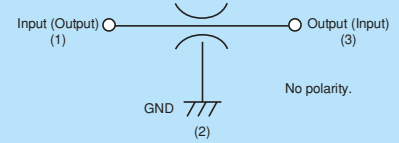
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	500

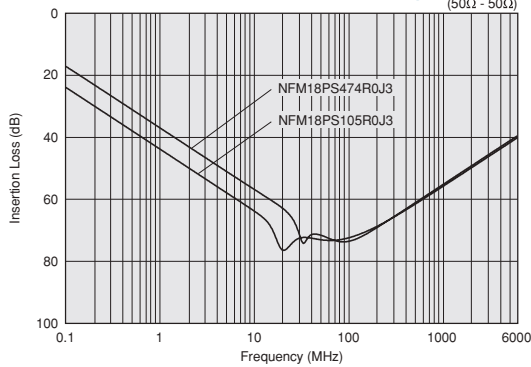
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM18PS474R0J3□	0.47μF ±20%	2A	6.3Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM18PS105R0J3□	1.0μF ±20%	2A	6.3Vdc	500M ohm	-55°C to +105°C	Kit ≥1A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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

Chip Ferrite Bead
 Chip EMIFIL® Power Lines Type
 Chip Common Mode Choke Coil
 Block Type EMIFIL®
 Microwave Absorber

NFM18PC Series (0603 Size)



4A max, 0603 size chip 3-terminal capacitor for power lines.

*Please refer to the products which are designed for both power lines and signal lines.

NFM18PC (0.1 to 0.47μF, 2.2μF - 6.3V)

■ Dimensions

■ : Electrode
(in mm)

■ Equivalent Circuit

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	500

NFM18PC (1μF, 2.2μF - 10V)

■ Dimensions

■ : Electrode
(in mm)

■ Equivalent Circuit

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	500

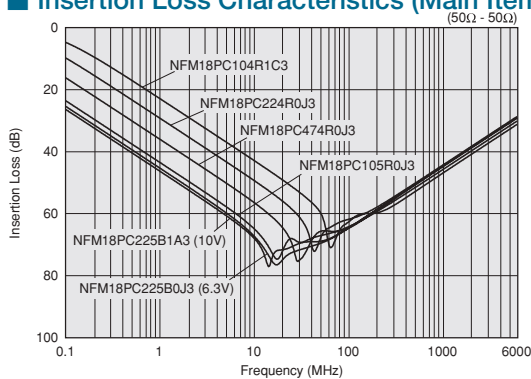
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM18PC104R1C3□	0.1μF ±20%	2A	16Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM18PC224R0J3□	0.22μF ±20%	2A	6.3Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM18PC474R0J3□	0.47μF ±20%	2A	6.3Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM18PC105R0J3□	1.0μF ±20%	4A	6.3Vdc	500M ohm	-55°C to +105°C	Kit ≥1A
NFM18PC225B0J3□	2.2μF ±20%	2A	6.3Vdc	200M ohm	-40°C to +85°C	Kit ≥1A
NFM18PC225B1A3□	2.2μF ±20%	4A	10Vdc	200M ohm	-40°C to +85°C	Kit ≥3A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead

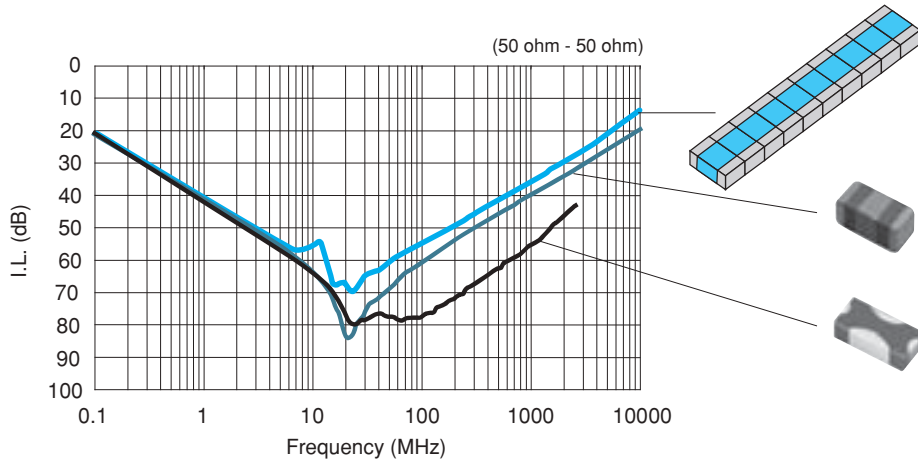
Power Lines Type
Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

• High frequency performance of NFM18PS series



Chip 3 terminal capacitor

2 terminal MLCC: 2012 size
(0.1μF x 10pcs parallel)

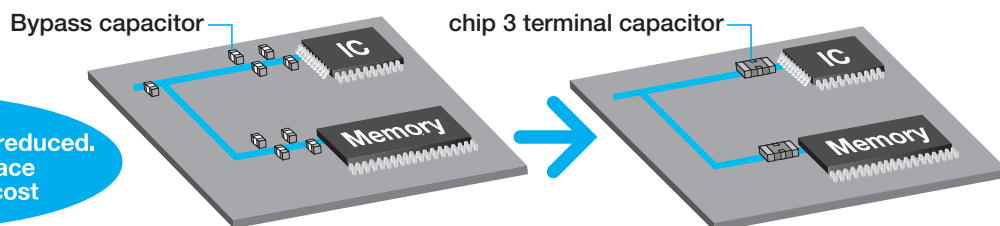
NFM18PC105R0J3 1pc
: 1608 size (1.0μF)

NFM18PS105R0J3 1pc
: 1608 size (1.0μF)

NFM18PS series has better high frequency performance compared to normal chip 3 terminal capacitors.

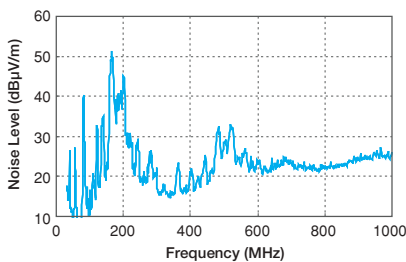
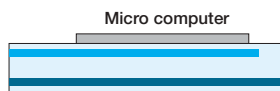
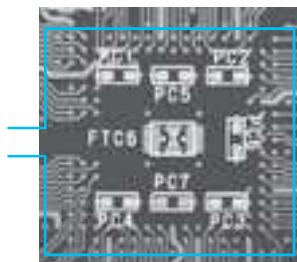
• Optimize of bypass capacitors using chip 3 terminal capacitor

Amount of parts can be reduced.
⇒ • Reduce PCB space
• Reduce mount cost

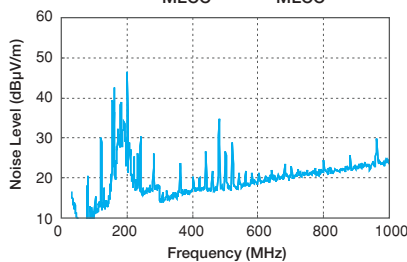
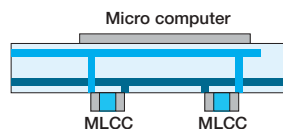
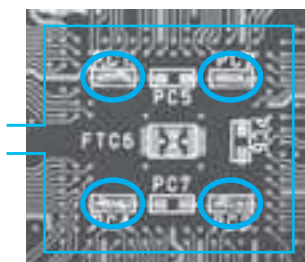


Comparison of performance as bypass capacitor

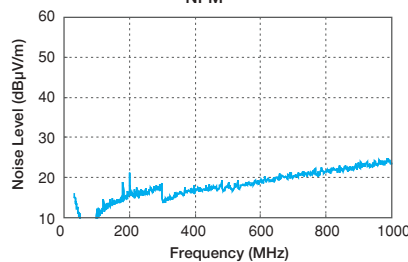
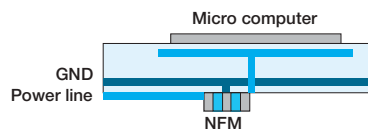
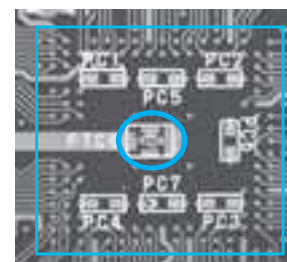
Without capacitor



With MLCC 0.22μF x 4



With chip 3 terminal capacitor (NFM) 1μF x 1



Noise suppression effect of NFM series is better than MLCCs. (1 NFM is better than 4 MLCCs)

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NFM21PS Series (0805 Size)



2012mm size 3-terminal capacitor with very low ground impedance.

■ Dimensions

(in mm)

■ Equivalent Circuit

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	500

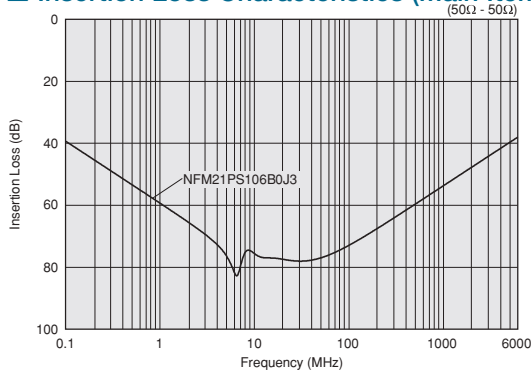
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM21PS106B0J3□	10μF ±20%	4A	6.3Vdc	50M ohm	-40°C to +85°C	New Kit ≥3A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead
Power Lines Type Chip EMIFIL®
Chip Common Mode Choke Coil
Block Type EMIFIL®
Microwave Absorber

NFM21PC Series (0805 Size)



6A max, 0805 size chip 3-terminal capacitor for power lines.

*Please refer to the products which are designed for both power lines and signal lines.

■ Dimensions

(in mm)

■ Equivalent Circuit

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	500

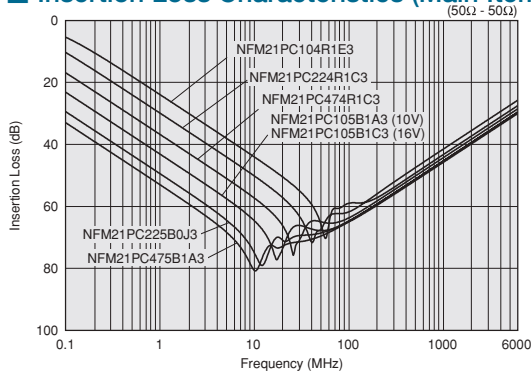
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM21PC104R1E3□	0.1μF ±20%	2A	25Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM21PC224R1C3□	0.22μF ±20%	2A	16Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM21PC474R1C3□	0.47μF ±20%	2A	16Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM21PC105B1A3□	1.0μF ±20%	4A	10Vdc	500M ohm	-40°C to +85°C	Kit ≥3A
NFM21PC105B1C3□	1.0μF ±20%	4A	16Vdc	500M ohm	-40°C to +85°C	Kit ≥3A
NFM21PC225B0J3□	2.2μF ±20%	4A	6.3Vdc	200M ohm	-40°C to +85°C	Kit ≥3A
NFM21PC475B1A3□	4.7μF ±20%	6A	10Vdc	100M ohm	-40°C to +85°C	Kit ≥3A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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NFM3DP Series (1205 Size)



1205 size 3-terminal capacitor for power lines.

*Please refer to the products which are designed for both power lines and signal lines.

■ Dimensions

(in mm)

■ Equivalent Circuit

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	4000
B	Bulk(Bag)	500

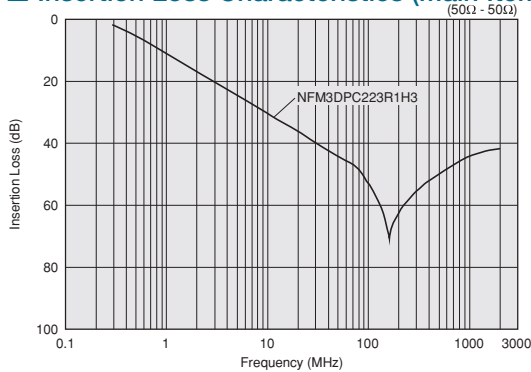
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM3DPC223R1H3□	0.022μF ±20%	2A	50Vdc	1000M ohm	-55°C to +125°C	≥1A

Number of Circuit: 1

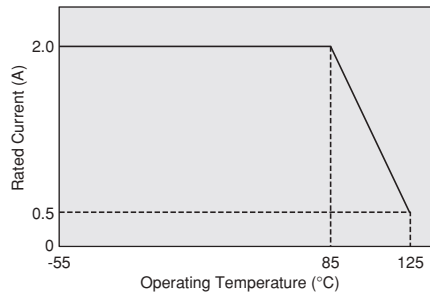
■ Insertion Loss Characteristics (Main Items)



■ Notice (Rating)

When NFM3DP series is used in operating temperature exceeding +85°C, derating of current is necessary. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



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Chip Ferrite Bead
 Power Lines Type Chip EMIFIL®
 Chip Common Mode Choke Coil
 Block Type EMIFIL®
 Microwave Absorber

NFM31P Series (1206 Size)

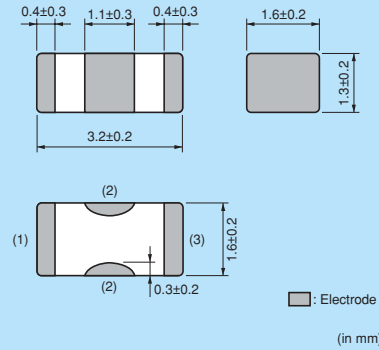


6A/27microF, 1206 size chip 3-terminal capacitor for power lines.

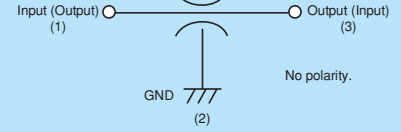
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	3000
B	Bulk(Bag)	500

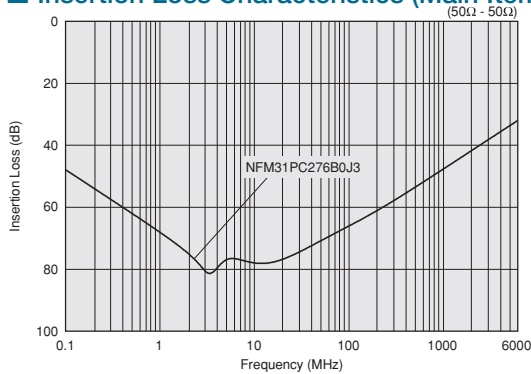
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM31PC276B0J3□	27μF ±20%	6A	6.3Vdc	20M ohm	-40°C to +85°C	Kit ≥3A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead
 Chip EMIFIL® Power Lines Type
 Chip Common Mode Choke Coil
 Block Type EMIFIL®
 Microwave Absorber

NFM31K Series (1206 Size)



Capable for 10A max. Large current 3-terminal capacitor.

■ Dimensions

0.4±0.3, 1.2±0.3, 0.4±0.3, 1.6±0.2, 3.2±0.2, 1.3±0.2, 1.6±0.2, 0.3±0.2, 1.6±0.2

Legend: Electrode (in mm)

■ Equivalent Circuit

Input (Output) (1) — Capacitor — Output (Input) (3)
GND (2)

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	3000
B	Bulk(Bag)	500

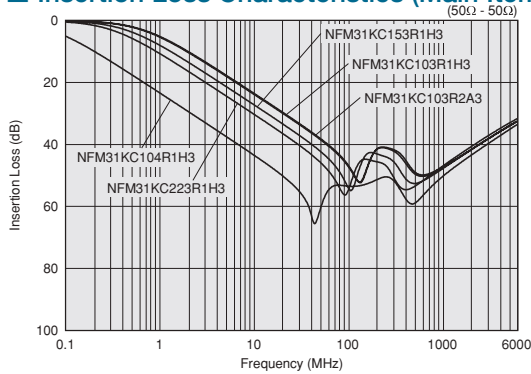
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM31KC103R1H3□	10000pF ±20%	10A	50Vdc	1000M ohm	-55°C to +125°C	New Kit ≥10A
NFM31KC103R2A3□	10000pF ±20%	10A	100Vdc	1000M ohm	-55°C to +125°C	New Kit ≥10A
NFM31KC153R1H3□	15000pF ±20%	10A	50Vdc	1000M ohm	-55°C to +125°C	New Kit ≥10A
NFM31KC223R1H3□	22000pF ±20%	10A	50Vdc	1000M ohm	-55°C to +125°C	New Kit ≥10A
NFM31KC104R1H3□	100000pF ±20%	6A	50Vdc	1000M ohm	-55°C to +125°C	New ≥3A

Number of Circuit: 1

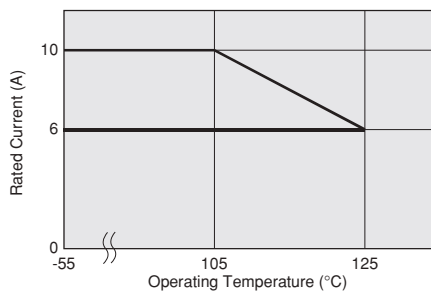
■ Insertion Loss Characteristics (Main Items)



■ Notice (Rating)

When NFM31K series is used in operating temperatures exceeding +105°C, derating of current is necessary. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



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NFM41P Series (1806 Size)

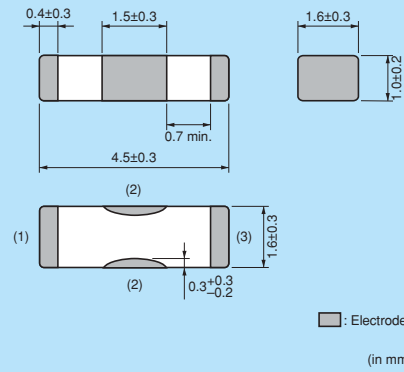


6A max, 1806 size chip 3-terminal capacitor for power lines.

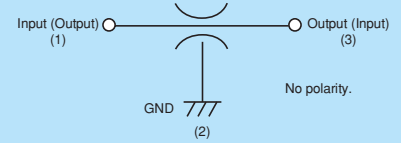
*Please refer to the products which are designed for both power lines and signal lines.



Dimensions



Equivalent Circuit



Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	4000
B	Bulk(Bag)	500

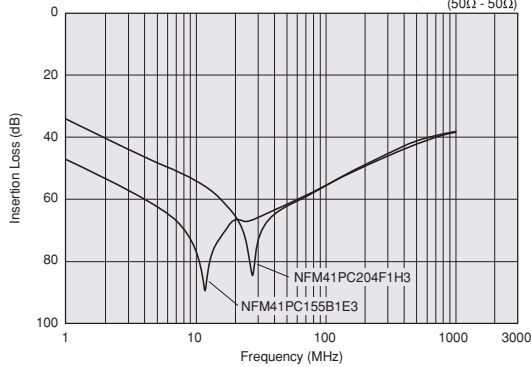
Refer to pages from p.142 to p.147 for mounting information.

Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM41PC204F1H3□	0.2μF +80/-20%	2A	50Vdc	1000M ohm	-55°C to +85°C	Kit ≥1A
NFM41PC155B1E3□	1.5μF ±20%	6A	25Vdc	300M ohm	-55°C to +85°C	Kit ≥3A

Number of Circuit: 1

Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead

Chip EMIFIL®
Power Lines Type

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

NFM55P Series (2220 Size)



50V/6A/1.5microF, large capacitance chip 3-terminal capacitor.

*Please refer to the products which are designed for both power lines and signal lines.

■ Dimensions

■ : Electrode
(in mm)

■ Equivalent Circuit

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	500
B	Bulk(Bag)	100

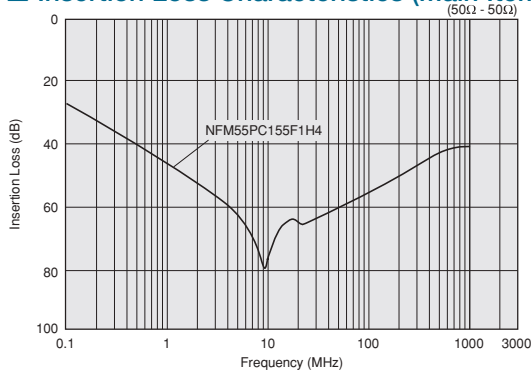
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM55PC155F1H4□	1.5μF +80/-20%	6A	50Vdc	100M ohm	-55°C to +85°C	≥3A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

Chip Ferrite Bead
Power Lines Type Chip EMIFIL®
Chip Common Mode Choke Coil
Block Type EMIFIL®
Microwave Absorber

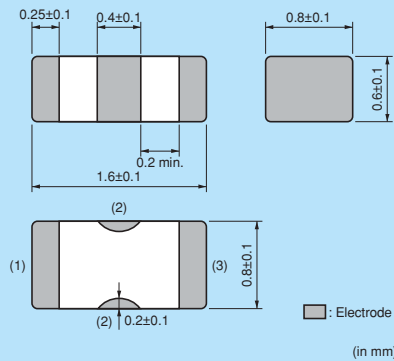
NFM18C Series (0603 Size)



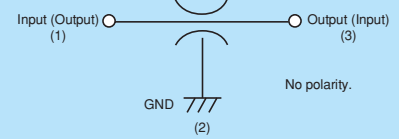
0603 size general 3-terminal capacitor.



■ Dimensions



■ Equivalent Circuit



■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	500

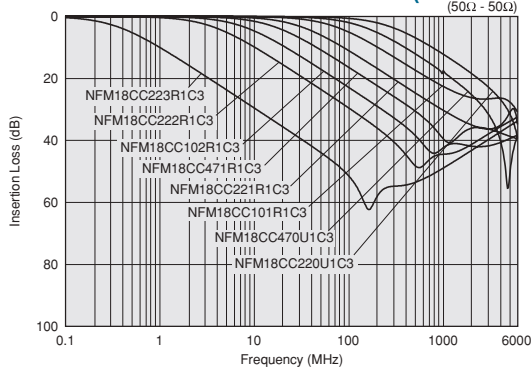
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM18CC220U1C3□	22pF ±20%	400mA	16Vdc	1000M ohm	-55°C to +125°C	Kit
NFM18CC470U1C3□	47pF ±20%	400mA	16Vdc	1000M ohm	-55°C to +125°C	Kit
NFM18CC101R1C3□	100pF ±20%	500mA	16Vdc	1000M ohm	-55°C to +125°C	Kit
NFM18CC221R1C3□	220pF ±20%	500mA	16Vdc	1000M ohm	-55°C to +125°C	Kit
NFM18CC471R1C3□	470pF ±20%	500mA	16Vdc	1000M ohm	-55°C to +125°C	Kit
NFM18CC102R1C3□	1000pF ±20%	600mA	16Vdc	1000M ohm	-55°C to +125°C	Kit
NFM18CC222R1C3□	2200pF ±20%	700mA	16Vdc	1000M ohm	-55°C to +125°C	Kit
NFM18CC223R1C3□	22000pF ±20%	1000mA	16Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

Chip Ferrite Bead

Chip EMIFIL®
Signal Lines Type

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

NFM21C Series (0805 Size)



0805 size general 3-terminal capacitor.

■ Dimensions

Legend: Electrode (in mm)

■ Equivalent Circuit

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	500

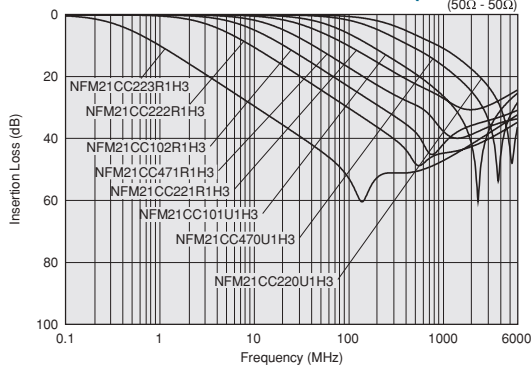
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFM21CC220U1H3□	22pF ±20%	700mA	50Vdc	1000M ohm	-55°C to +125°C	Kit
NFM21CC470U1H3□	47pF ±20%	700mA	50Vdc	1000M ohm	-55°C to +125°C	Kit
NFM21CC101U1H3□	100pF ±20%	700mA	50Vdc	1000M ohm	-55°C to +125°C	Kit
NFM21CC221R1H3□	220pF ±20%	700mA	50Vdc	1000M ohm	-55°C to +125°C	Kit
NFM21CC471R1H3□	470pF ±20%	1000mA	50Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM21CC102R1H3□	1000pF ±20%	1000mA	50Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM21CC222R1H3□	2200pF ±20%	1000mA	50Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A
NFM21CC223R1H3□	22000pF ±20%	2000mA	50Vdc	1000M ohm	-55°C to +125°C	Kit ≥1A

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead

Signal Lines Type
Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

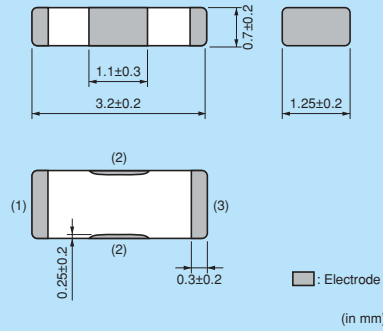
NFM3DC Series (1205 Size)



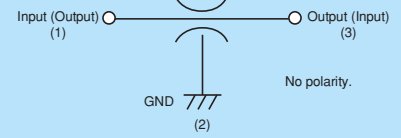
1205 size general 3-terminal capacitor.



Dimensions



Equivalent Circuit



Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	4000
B	Bulk(Bag)	500

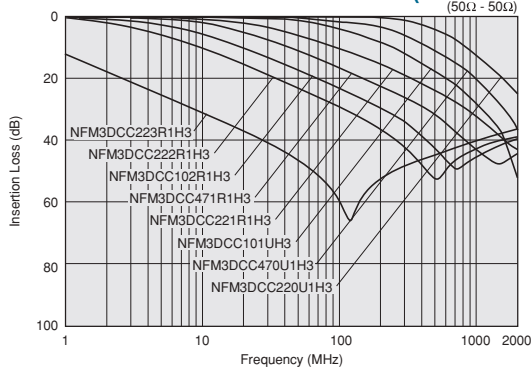
Refer to pages from p.142 to p.147 for mounting information.

Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range
NFM3DCC220U1H3□	22pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C
NFM3DCC470U1H3□	47pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C
NFM3DCC101U1H3□	100pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C
NFM3DCC221R1H3□	220pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C
NFM3DCC471R1H3□	470pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C
NFM3DCC102R1H3□	1000pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C
NFM3DCC222R1H3□	2200pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C
NFM3DCC223R1H3□	22000pF +50/-20%	300mA	50Vdc	1000M ohm	-55°C to +125°C

Number of Circuit: 1

Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead
Chip EMIFIL® Signal Lines Type
Chip Common Mode Choke Coil
Block Type EMIFIL®
Microwave Absorber

NFM41C Series (1806 Size)



1806 size general 3-terminal capacitor.

■ Dimensions

(in mm)

■ Equivalent Circuit

No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	4000
B	Bulk(Bag)	500

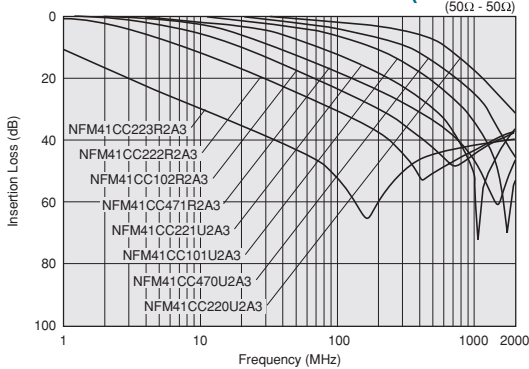
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range
NFM41CC220U2A3□	22pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C
NFM41CC470U2A3□	47pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C
NFM41CC101U2A3□	100pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C
NFM41CC221U2A3□	220pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C
NFM41CC471R2A3□	470pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C
NFM41CC102R2A3□	1000pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C
NFM41CC222R2A3□	2200pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C
NFM41CC223R2A3□	22000pF +50/-20%	300mA	100Vdc	10000M ohm	-55°C to +125°C

Number of Circuit: 1

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead

Signal Lines Type
Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

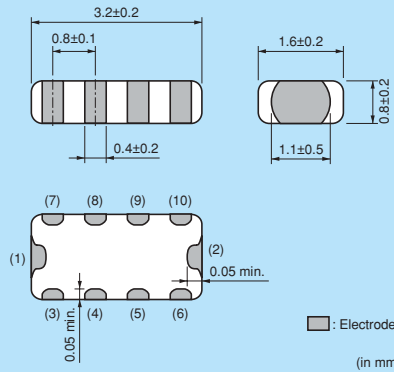
NFA31C Series (1206 Size)



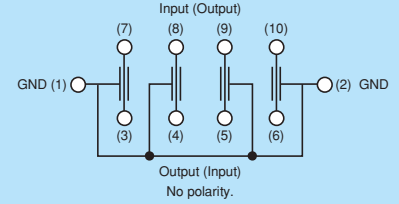
4-lines chip 3-terminal capacitor array, 1206 size.



■ Dimensions



■ Equivalent Circuit



■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	100

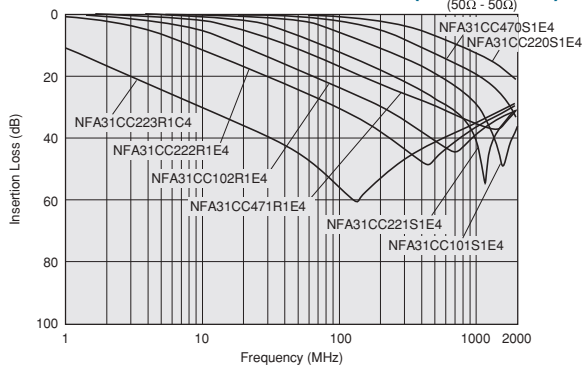
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range	
NFA31CC220S1E4□	22pF ±20%	200mA	25Vdc	1000M ohm	-40°C to +85°C	Kit
NFA31CC470S1E4□	47pF ±20%	200mA	25Vdc	1000M ohm	-40°C to +85°C	Kit
NFA31CC101S1E4□	100pF ±20%	200mA	25Vdc	1000M ohm	-40°C to +85°C	Kit
NFA31CC221S1E4□	220pF ±20%	200mA	25Vdc	1000M ohm	-40°C to +85°C	Kit
NFA31CC471R1E4□	470pF ±20%	200mA	25Vdc	1000M ohm	-40°C to +85°C	Kit
NFA31CC102R1E4□	1000pF ±20%	200mA	25Vdc	1000M ohm	-40°C to +85°C	Kit
NFA31CC222R1E4□	2200pF ±20%	200mA	25Vdc	1000M ohm	-40°C to +85°C	Kit
NFA31CC223R1C4□	22000pF ±20%	200mA	16Vdc	1000M ohm	-40°C to +85°C	Kit

Number of Circuit: 4

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead
Chip EMIFIL® Signal Lines Type
Chip Common Mode Choke Coil
Block Type EMIFIL®
Microwave Absorber

NFL15ST Series (0402 Size)



T-type LC filter, ultra-compact size of 1005mm

■ Dimensions

(Top View)

(Side View)

(Bottom View)

Legend: Electrode (in mm)

■ Equivalent Circuit

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
B	Bulk(Bag)	500

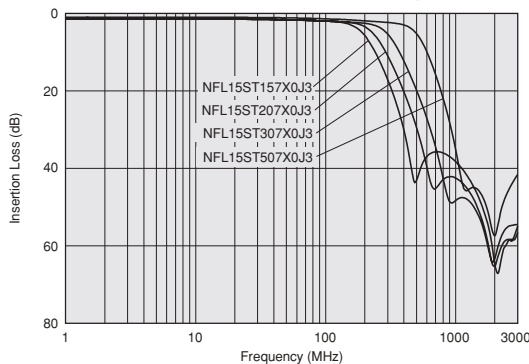
Refer to pages from p.142 to p.147 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Nominal Cut-off Frequency	Capacitance	Inductance	Insertion Loss 1	Insertion Loss 2	Rated Current	Rated Voltage	
NFL15ST157X0J3□	150MHz	22pF (Typ.)	115nH (Typ.)	6dB max.(0 to 150MHz)	25dB min.(200 to 1000MHz)	50mA	6.3Vdc	New Kit OTV
NFL15ST207X0J3□	200MHz	17pF (Typ.)	105nH (Typ.)	6dB max.(0 to 200MHz)	25dB min.(400 to 1000MHz)	50mA	6.3Vdc	New Kit OTV
NFL15ST307X0J3□	300MHz	12pF (Typ.)	95nH (Typ.)	6dB max.(0 to 300MHz)	25dB min.(600 to 1000MHz)	50mA	6.3Vdc	New Kit
NFL15ST507X0J3□	500MHz	7pF (Typ.)	60nH (Typ.)	6dB max.(0 to 500MHz)	25dB min.(600 to 1000MHz)	50mA	6.3Vdc	New Kit

Insulation Resistance (min.): 1000M ohm Withstand Voltage: 18.9Vdc Operating Temperature Range: -40°C to +85°C Number of Circuits: 1

■ Insertion Loss Characteristics (Main Items)



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Chip Ferrite Bead

Signal Lines Type
Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

NFL18ST Series (0603 Size)



T-type LC filter. Reduce waveform distortion of high speed signal.

Chip Ferrite Bead

Chip EMIFIL®
Signal Lines Type

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

NFL18ST_H

■ Dimensions
(Top View)

(Side View)

(Bottom View)

Legend: Electrode (in mm)

■ Equivalent Circuit

No Polarity.

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	1000

NFL18ST_X

■ Dimensions

Legend: Electrode (in mm)

■ Equivalent Circuit

No Polarity.

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
B	Bulk(Bag)	1000

Refer to pages from p.142 to p.147 for mounting information.

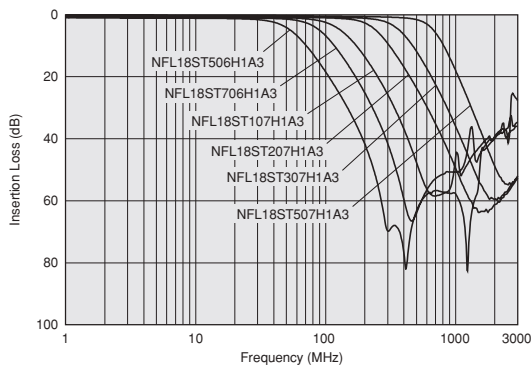
■ Rated Value (□: packaging code)

Part Number	Nominal Cut-off Frequency	Capacitance	Inductance	Insertion Loss 1	Insertion Loss 2	Rated Current	Rated Voltage	
NFL18ST506H1A3□	50MHz	110pF (Typ.)	350nH (Typ.)	6dB max.(0 to 50MHz)	30dB min.(200 to 1000MHz)	75mA	10Vdc	Kit OTV
NFL18ST706H1A3□	70MHz	70pF (Typ.)	230nH (Typ.)	6dB max.(0 to 70MHz)	30dB min.(300 to 1000MHz)	75mA	10Vdc	Kit OTV
NFL18ST107H1A3□	100MHz	50pF (Typ.)	150nH (Typ.)	6dB max.(0 to 100MHz)	30dB min.(400 to 1000MHz)	75mA	10Vdc	Kit OTV
NFL18ST207H1A3□	200MHz	22pF (Typ.)	110nH (Typ.)	6dB max.(0 to 200MHz)	30dB min.(800 to 2000MHz)	100mA	10Vdc	New Kit OTV
NFL18ST307H1A3□	300MHz	16pF (Typ.)	74nH (Typ.)	6dB max.(0 to 300MHz)	30dB min.(1200 to 2000MHz)	100mA	10Vdc	New Kit
NFL18ST507H1A3□	500MHz	10pF (Typ.)	42nH (Typ.)	6dB max.(0 to 500MHz)	30dB min.(1700 to 2000MHz)	100mA	10Vdc	New Kit

Insulation Resistance (min.): 1000M ohm Withstand Voltage: 30Vdc Operating Temperature Range: -55°C to +125°C Number of Circuits: 1

■ Insertion Loss Characteristics (Main Items)

NFL18ST_H Series



Continued on the following page.

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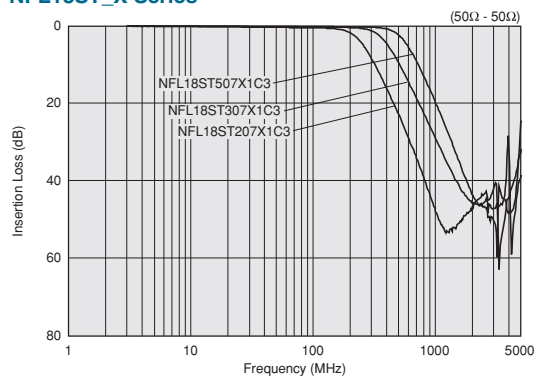
■ Rated Value (□: packaging code)

Part Number	Nominal Cut-off Frequency	Capacitance	Inductance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Withstand Voltage	Operating Temperature Range	
NFL18ST207X1C3□	200MHz	25pF±20%	110nH±20%	150mA	16Vdc	1000M ohm	50Vdc	-55°C to +125°C	Kit
NFL18ST307X1C3□	300MHz	18pF±20%	62nH±20%	200mA	16Vdc	1000M ohm	50Vdc	-55°C to +125°C	Kit
NFL18ST507X1C3□	500MHz	10pF±20%	43nH±20%	200mA	16Vdc	1000M ohm	50Vdc	-55°C to +125°C	Kit

Number of Circuits: 1

■ Insertion Loss Characteristics (Main Items)

NFL18ST_X Series



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