

Chip EMI Suppression Filter Design Kits



●EKEMBL15E (Chip Ferrite Beads 0402 Size)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	BLM15AG100SN1	20	10 Ω (Typ.)	1000	0.05
2	BLM15AG700SN1	20	70 Ω (Typ.)	500	0.15
3	BLM15AG121SN1	20	120 Ω ±25%	500	0.25
4	BLM15AG221SN1	20	220 Ω ±25%	300	0.35
5	BLM15AG601SN1	20	600 Ω ±25%	300	0.60
6	BLM15AG102SN1	20	1000 Ω ±25%	200	1.00
7	BLM15BB050SN1	20	5 Ω ±25%	500	0.08
8	BLM15BB100SN1	20	10 Ω ±25%	300	0.10
9	BLM15BB220SN1	20	22 Ω ±25%	300	0.20
10	BLM15BB470SN1	20	47 Ω ±25%	300	0.35
11	BLM15BB750SN1	20	75 Ω ±25%	300	0.40
12	BLM15BB121SN1	20	120 Ω ±25%	300	0.55
13	BLM15BB221SN1	20	220 Ω ±25%	200	0.80
14	BLM15BD750SN1	20	75 Ω ±25%	300	0.20
15	BLM15BD121SN1	20	120 Ω ±25%	300	0.30
16	BLM15BD221SN1	20	220 Ω ±25%	300	0.40
17	BLM15BD471SN1	20	470 Ω ±25%	200	0.60
18	BLM15BD601SN1	20	600 Ω ±25%	200	0.65
19	BLM15BD102SN1	20	1000 Ω ±25%	200	0.90
20	BLM15BD182SN1	20	1800 Ω ±25%	100	1.40
21	BLM15HD601SN1	20	600 Ω ±25%	300	0.85
22	BLM15HD102SN1	20	1000 Ω ±25%	250	1.25
23	BLM15HD182SN1	20	1800 Ω ±25%	200	2.20
24	BLM15HG601SN1	20	600 Ω ±25%	300	0.70
25	BLM15HG102SN1	20	1000 Ω ±25%	250	1.10
26	BLM15HB121SN1	20	120 Ω ±25%	300	0.70
27	BLM15HB221SN1	20	220 Ω ±25%	250	1.00
28	BLM15EG121SN1	20	120 Ω ±25%	1500	0.095
29	BLM15EG221SN1	20	220 Ω ±25%	700	0.28

●EKEMBL18C (Chip Ferrite Beads 0603 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	BLM18AG121SN1	20	120 Ω ±25%	200	0.20
2	BLM18AG221SN1	20	220 Ω ±25%	200	0.30
3	BLM18AG601SN1	20	600 Ω ±25%	200	0.50
4	BLM18AG102SN1	20	1000 Ω ±25%	100	0.70
5	BLM18BA050SN1	20	5 Ω ±25%	500	0.20
6	BLM18BA100SN1	20	10 Ω ±25%	500	0.25

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No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
7	BLM18BA470SN1	20	47 Ω ±25%	300	0.55
8	BLM18BA750SN1	20	75 Ω ±25%	300	0.70
9	BLM18BA121SN1	20	120 Ω ±25%	200	0.90
10	BLM18BB050SN1	20	5 Ω ±25%	700	0.10
11	BLM18BB100SN1	20	10 Ω ±25%	500	0.15
12	BLM18BB470SN1	20	47 Ω ±25%	500	0.30
13	BLM18BB750SN1	20	75 Ω ±25%	200	0.35
14	BLM18BB121SN1	20	120 Ω ±25%	200	0.50
15	BLM18BB221SN1	20	220 Ω ±25%	200	0.65
16	BLM18BB471SN1	20	470 Ω ±25%	50	1.00
17	BLM18BD121SN1	20	120 Ω ±25%	200	0.40
18	BLM18BD221SN1	20	220 Ω ±25%	200	0.45
19	BLM18BD471SN1	20	470 Ω ±25%	200	0.55
20	BLM18BD601SN1	20	600 Ω ±25%	200	0.65
21	BLM18BD102SN1	20	1000 Ω ±25%	100	0.85
22	BLM18BD182SN1	20	1800 Ω ±25%	50	1.50
23	BLM18BD252SN1	20	2500 Ω ±25%	50	1.50
24	BLM18HG471SN1	20	470 Ω ±25%	200	0.85
25	BLM18HG601SN1	20	600 Ω ±25%	200	1.00
26	BLM18HG102SN1	20	1000 Ω ±25%	100	1.60
27	BLM18HD471SN1	20	470 Ω ±25%	100	1.20
28	BLM18HD601SN1	20	600 Ω ±25%	100	1.50
29	BLM18HD102SN1	20	1000 Ω ±25%	50	1.80
30	BLM18PG330SN1	20	33 Ω ±25%	3000	0.025
31	BLM18PG181SN1	20	180 Ω ±25%	1500	0.09
32	BLM18PG221SN1	20	220 Ω ±25%	1400	0.10
33	BLM18PG331SN1	20	330 Ω ±25%	1200	0.15
34	BLM18PG471SN1	20	470 Ω ±25%	1000	0.20
35	BLM18SG260TN1	20	26 Ω ±25%	6000	0.007
36	BLM18SG700TN1	20	70 Ω ±25%	4000	0.020
37	BLM18SG121TN1	20	120 Ω ±25%	3000	0.025
38	BLM18SG221TN1	20	220 Ω ±25%	2500	0.040
39	BLM18SG331TN1	20	330 Ω ±25%	1500	0.070
40	BLM31PG391SN1	20	390 Ω (Typ.)	2000	0.05
41	BLM31PG601SN1	20	600 Ω (Typ.)	1500	0.09
42	BLM41PG181SN1	20	180 Ω (Typ.)	3000	0.025
43	BLM41PG471SN1	20	470 Ω (Typ.)	2000	0.05
44	BLM41PG102SN1	20	1000 Ω (Typ.)	1500	0.09
45	BLM18RK121SN1	20	120 Ω ±25%	200	0.25
46	BLM18RK471SN1	20	470 Ω ±25%	200	0.5
47	BLM18RK601SN1	20	600 Ω ±25%	200	0.6
48	BLM18RK102SN1	20	1000 Ω ±25%	200	0.8
49	BLM18HK471SN1	20	470 Ω ±25%	200	0.7
50	BLM18HK601SN1	20	600 Ω ±25%	100	0.9
51	BLM18HK102SN1	20	1000 Ω ±25%	50	1.5
52	BLM18EG121SN1	20	120 Ω ±25%	2000	0.04
53	BLM18EG221SN1	20	220 Ω ±25%	1000	0.15
54	BLM18EG471SN1	20	470 Ω ±25%	500	0.21
55	BLM18EG601SN1	20	600 Ω ±25%	500	0.35

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●EKEMBL21B (Chip Ferrite Beads 0805 Size)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	BLM21AG121SN1	20	120Ω±25%	200	0.15
2	BLM21AG221SN1	20	220Ω±25%	200	0.20
3	BLM21AG471SN1	20	470Ω±25%	200	0.25
4	BLM21AG601SN1	20	600Ω±25%	200	0.30
5	BLM21AG102SN1	20	1000Ω±25%	200	0.45
6	BLM21BB600SN1	20	60Ω±25%	200	0.20
7	BLM21BB750SN1	20	75Ω±25%	200	0.25
8	BLM21BB121SN1	20	120Ω±25%	200	0.25
9	BLM21BB221SN1	20	220Ω±25%	200	0.35
10	BLM21BB471SN1	20	470Ω±25%	200	0.45
11	BLM21BD121SN1	20	120Ω±25%	200	0.25
12	BLM21BD221SN1	20	220Ω±25%	200	0.25
13	BLM21BD471SN1	20	470Ω±25%	200	0.35
14	BLM21BD601SN1	20	600Ω±25%	200	0.35
15	BLM21BD102SN1	20	1000Ω±25%	200	0.40
16	BLM21BD182SN1	20	1800Ω±25%	200	0.50
17	BLM21BD222SN1	20	2250Ω (Typ.)	200	0.60
18	BLM21BD222TN1	20	2200Ω±25%	200	0.60
19	BLM21BD272SN1	20	2700Ω±25%	200	0.80

●EKEMFL18D (Chip EMIFIL LC Combined Type)

No.	Part Number	Quantity (pcs.)	Cut-off Frequency	Rated Voltage	Rated Current	Insulation Resistance (MΩ min.)	DC Resistance max.
1	NFA21SL207X1A45	20	200MHz	10 VDC	100mA	1000	-
2	NFA21SL307X1A45	20	300MHz	10 VDC	100mA	1000	-
3	NFA21SL806X1A48	20	80MHz	10 VDC	20mA	1000	-
4	NFA21SL287V1A48	20	280MHz	10 VDC	100mA	1000	-
5	NFA21SL317V1A48	20	310MHz	10 VDC	100mA	1000	-
6	NFA21SL337V1A48	20	330MHz	10 VDC	100mA	1000	-
7	NFL18ST207X1C3	20	200MHz	16 V	150mA	1000	3.5Ω
8	NFL18ST307X1C3	20	300MHz	16 V	200mA	1000	1.8Ω
9	NFL18ST507X1C3	20	500MHz	16 V	200mA	1000	1.5Ω
10	NFL18SP157X1A3	20	150MHz	10 V	100mA	1000	3.0Ω
11	NFL18SP207X1A3	20	200MHz	10 V	100mA	1000	3.0Ω
12	NFL18SP307X1A3	20	300MHz	10 V	100mA	1000	3.0Ω
13	NFL18SP507X1A3	20	500MHz	10 V	100mA	1000	2.0Ω
14	NFL21SP106X1C3	20	10MHz	16V	100mA	1000	8.5Ω
15	NFL21SP506X1C3	20	50MHz	16 V	150mA	1000	3.5Ω
16	NFL21SP706X1C3	20	70MHz	16 V	150mA	1000	3.0Ω
17	NFL21SP107X1C3	20	100MHz	16 V	200mA	1000	2.0Ω
18	NFL21SP157X1C3	20	150MHz	16 V	200mA	1000	2.0Ω
19	NFL21SP207X1C3	20	200MHz	16 V	250mA	1000	1.5Ω
20	NFL21SP307X1C3	20	300MHz	16 V	300mA	1000	1.2Ω
21	NFL21SP407X1C3	20	400MHz	16 V	300mA	1000	1.2Ω
22	NFL21SP507X1C3	20	500MHz	16 V	300mA	1000	1.2Ω

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No.	Part Number	Quantity (pcs.)	Cut-off Frequency	Attenuation (dB min.)										Rated Current	Rated Voltage
				10MHz	20MHz	50MHz	100MHz	150MHz	200MHz	300MHz	400MHz	500MHz	1GHz		
23	NFW31SP106X1E4	10	10MHz	6dB max.	5	25	25	-	25	-	-	30	30	200mA	25V
24	NFW31SP206X1E4	10	20MHz	-	6dB max.	5	25	-	25	-	-	30	30	200mA	25V
25	NFW31SP506X1E4	10	50MHz	-	-	6dB max.	10	-	30	-	-	30	30	200mA	25V
26	NFW31SP107X1E4	10	100MHz	-	-	-	6dB max.	-	5	-	-	20	30	200mA	25V
27	NFW31SP157X1E4	10	150MHz	-	-	-	-	6dB max.	-	10	20	30	30	200mA	25V
28	NFW31SP207X1E4	10	200MHz	-	-	-	-	-	6dB max.	-	-	10	30	200mA	25V
29	NFW31SP307X1E4	10	300MHz	-	-	-	-	-	-	6dB max.	-	5	15	200mA	25V
30	NFW31SP407X1E4	10	400MHz	-	-	-	-	-	-	-	6dB max.	-	10	200mA	25V
31	NFW31SP507X1E4	10	500MHz	-	-	-	-	-	-	-	-	6dB max.	10	200mA	25V

●EKEMFA31B (Chip EMIFIL Capacitor Array Type/ Capacitor Type/ LC Combined Type)

No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (MΩ min.)
1	NFA31CC220S1E4	20	22pF±20%	25 V	200mA	1000
2	NFA31CC470S1E4	20	47pF±20%	25 V	200mA	1000
3	NFA31CC101S1E4	20	100pF±20%	25 V	200mA	1000
4	NFA31CC221S1E4	20	220pF±20%	25 V	200mA	1000
5	NFA31CC471R1E4	20	470pF±20%	25 V	200mA	1000
6	NFA31CC102R1E4	20	1000pF±20%	25 V	200mA	1000
7	NFA31CC222R1E4	20	2200pF±20%	25 V	200mA	1000
8	NFA31CC223R1C4	20	22000pF±20%	16 V	200mA	1000
9	NFA31GD1006R84	20	10pF±20%	6 V	50mA	1000
10	NFA31GD1004704	20	10pF±20%	6 V	20mA	1000
11	NFA31GD1001014	20	10pF±20%	6 V	15mA	1000
12	NFA31GD4706R84	20	47pF±20%	6 V	50mA	1000
13	NFA31GD4704704	20	47pF±20%	6 V	20mA	1000
14	NFA31GD4701014	20	47pF±20%	6 V	15mA	1000
15	NFA31GD1016R84	20	100pF±20%	6 V	50mA	1000
16	NFA31GD1014704	20	100pF±20%	6 V	20mA	1000
17	NFA31GD1011014	20	100pF±20%	6 V	15mA	1000

●EKEMDL21E (Chip Common Mode Choke Coils)

No.	Part Number	Quantity (pcs.)	Common Mode Impedance typ. (at 100MHz, 20 degrees C)	Rated Voltage	Rated Current	Insulation Resistance (MΩ min.)
1	DLW21HN670SQ2	10	67Ω (Typ.)	50V	330mA	10
2	DLW21HN900SQ2	10	90Ω (Typ.)	50V	330mA	10
3	DLW21HN121SQ2	10	120Ω (Typ.)	50V	280mA	10
4	DLW21HN181SQ2	10	180Ω (Typ.)	50V	250mA	10
5	DLW21SN670SQ2	10	67Ω (Typ.)	50V	400mA	10
6	DLW21SN900SQ2	10	90Ω (Typ.)	50V	330mA	10
7	DLW21SN121SQ2	10	120Ω (Typ.)	50V	370mA	10
8	DLW21SN181SQ2	10	180Ω (Typ.)	50V	330mA	10
9	DLW21SN261SQ2	10	260Ω (Typ.)	50V	300mA	10
10	DLW21SN371SQ2	10	370Ω (Typ.)	50V	280mA	10
11	DLW21SN670HQ2	10	67Ω±25%	20V	320mA	10
12	DLW21SN900HQ2	10	90Ω±25%	20V	280mA	10
13	DLW21SN121HQ2	10	120Ω±25%	20V	280mA	10
14	DLW31SN601SQ2	10	600Ω (Typ.)	50V	260mA	10
15	DLW31SN102SQ2	10	1000Ω (Typ.)	50V	230mA	10
16	DLW31SN222SQ2	10	2200Ω (Typ.)	50V	200mA	10
17	DLW5AHN402SQ2	5	4000Ω (Typ.)	50V	200mA	10
18	DLW5BSN302SQ2	5	3000Ω (Typ.)	50V	500mA	10

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No.	Part Number	Quantity (pcs.)	Common Mode Impedance typ. (at 100MHz, 20 degrees C)	Rated Voltage	Rated Current	Insulation Resistance (MΩ min.)
19	DLW5BSN152SQ2	5	1500Ω (Typ.)	50V	1000mA	10
20	DLW5BTN101SQ2	5	100Ω (Typ.)	50V	6000mA	10
21	DLW5BTN251SQ2	5	250Ω (Typ.)	50V	5000mA	10
22	DLW5BTN501SQ2	5	500Ω (Typ.)	50V	4000mA	10
23	DLW5BTN102SQ2	5	1000Ω (Typ.)	50V	2000mA	10
24	DLW5BTN142SQ2	5	1400Ω (Typ.)	50V	1500mA	10
25	DLP11SN670SL2	10	67Ω±20%	5V	180mA	100
26	DLP11SN900SL2	10	90Ω (Typ.)	5V	160mA	100
27	DLP11SN121SL2	10	120Ω (Typ.)	5V	140mA	100
28	DLP11SN161SL2	10	160Ω (Typ.)	5V	120mA	100
29	DLP11SN201HL2	10	200Ω±20%	5V	110mA	100
30	DLP11SN241HL2	10	240Ω±20%	5V	100mA	100
31	DLP11SN281HL2	10	280Ω±20%	5V	90mA	100
32	DLP11SN331HL2	10	330Ω±20%	5V	80mA	100
33	DLP2ADN670HL4	10	67Ω±20%	5V	140mA	100
34	DLP2ADN900HL4	10	90Ω±20%	5V	130mA	100
35	DLP2ADN121HL4	10	120Ω±20%	5V	120mA	100
36	DLP2ADN161HL4	10	160Ω±20%	5V	100mA	100
37	DLP2ADN201HL4	10	200Ω±20%	5V	90mA	100
38	DLP2ADN241HL4	10	240Ω±20%	5V	80mA	100
39	DLP2ADN281HL4	10	280Ω±20%	5V	80mA	100
40	DLP31DN321ML4	10	320Ω±20%	10V	80mA	100
41	DLP31DN441ML4	10	440Ω±20%	10V	70mA	100
42	DLM11GN601SZ2	10	600Ω±25%	5V	100mA	100

●EKEMNFMPD


No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (MΩ min.)
1	NFM18PC104R1C3	20	0.1μF±20%	16 V	2A	1000
2	NFM18PC224R0J3	20	0.22μF±20%	6.3 V	2A	1000
3	NFM18PC474R0J3	20	0.47μF±20%	6.3 V	2A	1000
4	NFM18PC105R0J3	20	1μF±20%	6.3 V	2A	500
5	NFM18PS474R0J3	20	0.47μF±20%	6.3 V	2A	1000
6	NFM18PS105R0J3	20	1μF±20%	6.3 V	2A	500
7	NFM21PC104R1E3	20	0.1μF±20%	25 V	2A	1000
8	NFM21PC224R1C3	20	0.22μF±20%	16 V	2A	1000
9	NFM21PC474R1C3	20	0.47μF±20%	16 V	2A	1000
10	NFM21PC105B1A3	20	1μF±20%	10 V	4A	500
11	NFM21PC105B1C3	20	1μF±20%	16 V	4A	500
12	NFM21PC225B0J3	20	2.2μF±20%	6.3 V	4A	200
13	NFE31PT152Z1E9	20	1500pF +50/-20%	25 V	6A	1000
14	NFE31PT222Z1E9	20	2200pF±50%	25 V	6A	1000
15	NFE61PT102E1H9	20	1000pF +80/-20%	50 V	2A	1000
16	NFE61PT472C1H9	20	4700pF +80/-20%	50 V	2A	1000
17	NFM41PC204F1H3	20	0.2μF +80/-20%	50 V	2A	1000
18	NFM41PC155B1E3	20	1.5μF±20%	25 V	6A	300

●EKEMNFMCA

No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (MΩ min.)
1	NFM18CC220U1C3	20	22pF±20%	16 V	400mA	1000
2	NFM18CC470U1C3	20	47pF±20%	16 V	400mA	1000

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No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)
3	NFM18CC101R1C3	20	100pF \pm 20%	16 V	500mA	1000
4	NFM18CC221R1C3	20	220pF \pm 20%	16 V	500mA	1000
5	NFM18CC471R1C3	20	470pF \pm 20%	16 V	500mA	1000
6	NFM18CC102R1C3	20	1000pF \pm 20%	16 V	600mA	1000
7	NFM18CC222R1C3	20	2200pF \pm 20%	16 V	700mA	1000
8	NFM18CC223R1C3	20	22000pF \pm 20%	16 V	1000mA	1000
9	NFM21CC220U1H3	20	22pF \pm 20%	50 V	700mA	1000
10	NFM21CC470U1H3	20	47pF \pm 20%	50 V	700mA	1000
11	NFM21CC101U1H3	20	100pF \pm 20%	50 V	700mA	1000
12	NFM21CC221R1H3	20	220pF \pm 20%	50 V	700mA	1000
13	NFM21CC471R1H3	20	470pF \pm 20%	50 V	1000mA	1000
14	NFM21CC102R1H3	20	1000pF \pm 20%	50 V	1000mA	1000
15	NFM21CC222R1H3	20	2200pF \pm 20%	50 V	1000mA	1000
16	NFM21CC223R1H3	20	22000pF \pm 20%	50 V	2000mA	1000