SBF Series
SMD Power Inductors

京特 Kyotoku

Product Outline

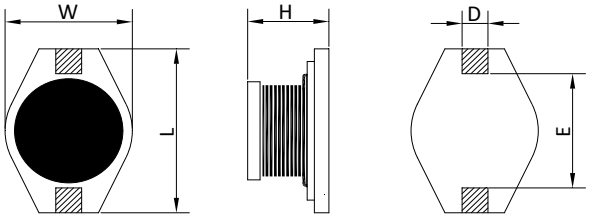
- Excellent saturation current handling to be up to 8.6A.
- Low DC resistance keeps power losses to a minimum.
- For DC-DC converter applications.
- Ideally used in thin-screen TV, LCDs, AV equipment and other electronic devices.
- Custom design is also available.



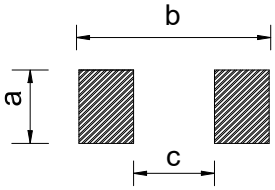




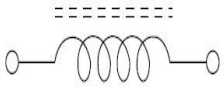
Dimensions(mm)



Recommended Patterns



Schematics



Type	L	W	H	D	E	a	b	c	Packaging (pcs/reel)
SBF3316M	12.95±0.2	9.3±0.2	5.20 max.	2.54	7.62	2.8	13.2	7.4	1000
SBF3340M	12.95±0.2	9.4±0.2	11.43max.	2.54	7.62	2.8	13.2	7.4	350
SBF5022M	18.20±0.2	14.0±0.2	7.10 max.	2.54	12.65	2.8	18.4	12.4	300

Dimensions without tolerance are typical

SBF3316M Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
SBF3316M-1R0MT01	1.0	±20%	9	6.8
SBF3316M-1R5MT01	1.5	±20%	10	6.4
SBF3316M-2R2MT01	2.2	±20%	12	6.1
SBF3316M-3R3MT01	3.3	±20%	15	5.4
SBF3316M-4R7MT01	4.7	±20%	18	4.8
SBF3316M-6R8MT01	6.8	±20%	27	4.4
SBF3316M-100MT01	10	±20%	37	3.88
SBF3316M-150MT01	15	±20%	46	3.06
SBF3316M-220MT01	22	±20%	85	2.35
SBF3316M-330MT01	33	±20%	100	2.04
SBF3316M-470MT01	47	±20%	140	1.63
SBF3316M-680MT01	68	±20%	195	1.43
SBF3316M-101MT01	100	±20%	274	1.22
SBF3316M-151MT01	150	±20%	398	1.0
SBF3316M-221MT01	220	±20%	608	0.8
SBF3316M-331MT01	330	±20%	1015	0.6
SBF3316M-471MT01	470	±20%	1265	0.5
SBF3316M-681MT01	680	±20%	2015	0.4
SBF3316M-102MT01	1000	±20%	2995	0.3
SBF3316M-152MT01	1500	±20%	4490	0.27
SBF3316M-332MT01	3300	±20%	8968	0.17

All specifications are subject to change without notice.

SBF3340M Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
SBF3340M -100MT01	10	±20%	40	3.57
SBF3340M -150MT01	15	±20%	50	3.06
SBF3340M -220MT01	22	±20%	66	2.55
SBF3340M -330MT01	33	±20%	80	2.04
SBF3340M -470MT01	47	±20%	109	1.63
SBF3340M -680MT01	68	±20%	168	1.22
SBF3340M -101MT01	100	±20%	220	1.22
SBF3340M -151MT01	150	±20%	340	0.92
SBF3340M -221MT01	220	±20%	438	0.71
SBF3340M -331MT01	330	±20%	698	0.61
SBF3340M -471MT01	470	±20%	948	0.31
SBF3340M -681MT01	680	±20%	1150	0.20
SBF3340M -102MT01	1000	±20%	1995	0.10

SBF5022M Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
SBF5022M-1R0MT01	1.0	±20%	9	8.6
SBF5022M-2R2MT01	2.2	±20%	14	7.1
SBF5022M-3R3MT01	3.3	±20%	16	6.2
SBF5022M-5R6MT01	5.6	±20%	20	5.3
SBF5022M-8R2MT01	8.2	±20%	29	4.8
SBF5022M-100MT01	10	±20%	31	4.3
SBF5022M-150MT01	15	±20%	36	4.0
SBF5022M-220MT01	22	±20%	47	3.5
SBF5022M-330MT01	33	±20%	66	3.0
SBF5022M-470MT01	47	±20%	86	2.6
SBF5022M-680MT01	68	±20%	130	2.3
SBF5022M-101MT01	100	±20%	190	1.8
SBF5022M-151MT01	150	±20%	250	1.5
SBF5022M-221MT01	220	±20%	380	1.2
SBF5022M-331MT01	330	±20%	560	1.0
SBF5022M-471MT01	470	±20%	850	0.82
SBF5022M-681MT01	680	±20%	1100	0.72
SBF5022M-102MT01	1000	±20%	1800	0.56

① Inductance tested at 100kHz/0.1 Vrms using an Agilent/HP 4192A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Rated current: The DC current at which the inductance decreases by 10% of its nominal value or at which △t=40℃, whichever is lower(Ta=20℃).