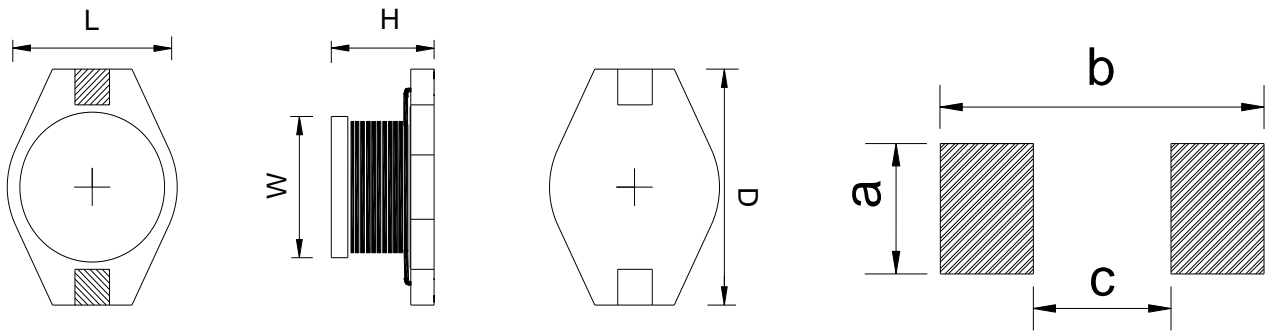


Product Outline

- 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.
- RoHS compliant.



Dimensions



Unit: mm

Type	L	W	H	D	a	b	c	Packaging (pcs/reel)
SBF5022M	15.24 typ.	12.7 typ.	7.11max.	18.54max.	2.5	17.7	12.7	400

Dimensions without tolerance are typical.

Product Identification

SBF 5022 M - 100 M T 01

(1) (2) (3) (4) (5) (6) (7)

(1) Product Series No.

(2) Dimension symbol.

5022=18.54 x 7.11mm (Dx H)

(3) Internal control code.

(4) Inductance value.

100=10×10⁰ uH=10 uH 2R2=2.2 uH

(5) Tolerance.

M=±20% , Y=±30% , P=±35%

(6) Packing Style, T=Taping, B=Bulk

(7) Characteristic parameter level.

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 $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=20^{\circ}\text{C}$).