

SSB5012D SERIES

Low Profile Power Inductors



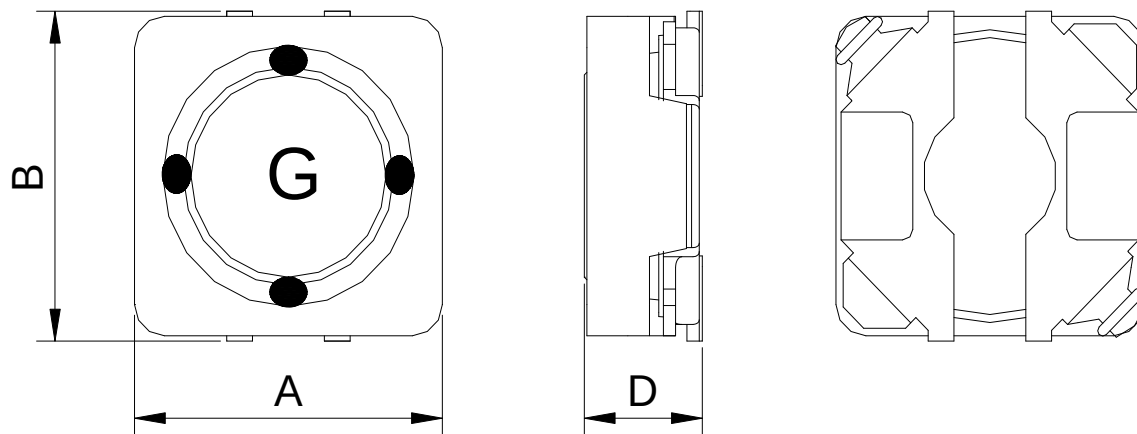
RoHS Compliant

PART NUMBERING SYSTEM

SSB	5012D	—	6R8M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

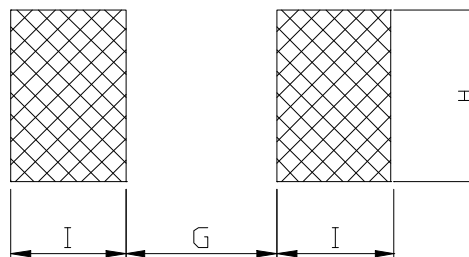
UNIT : mm



A=5.1 Max. B=5.1 Max. D=1.2 Max.

RECOMMENDED PATTERNS

UNIT : mm



G=1.4 H=5.4 I=2.0

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ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE (μ H)	DCR (Ω) Max.(Typ.)	Isat (A) (Max.)	Irms (A) (Max.)	Stamp
SSB5012D-1R0N-LF	1.0 $\pm$ 30%	46.8m(39m)	2.50	2.20	1R0
SSB5012D-1R5N-LF	1.5 $\pm$ 30%	58.8m(49m)	2.10	2.05	1R5
SSB5012D-2R2N-LF	2.2 $\pm$ 30%	86.4m(72m)	1.90	1.80	2R2
SSB5012D-3R3N-LF	3.3 $\pm$ 30%	99.6m(83m)	1.60	1.65	3R3
SSB5012D-4R7M-LF	4.7 $\pm$ 20%	0.156(0.13)	1.40	1.40	4R7
SSB5012D-6R8N-LF	6.8 $\pm$ 20%	0.192(0.16)	1.10	1.25	6R8
SSB5012D-100M-LF	10 $\pm$ 20%	0.300(0.25)	0.90	1.05	100
SSB5012D-150M-LF	15 $\pm$ 20%	0.336(0.28)	0.65	0.95	150

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4284B LCR meter or equivalent.
- Isat : DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: The actual current when temperature of coil becomes $\Delta 40^{\circ}\text{C}$. (Ta=+25 $^{\circ}\text{C}$)
Operating temperature range -40 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$, Electrical specifications at 25 $^{\circ}\text{C}$.