



# SSB5010D SERIES

## Low Profile Power Inductors



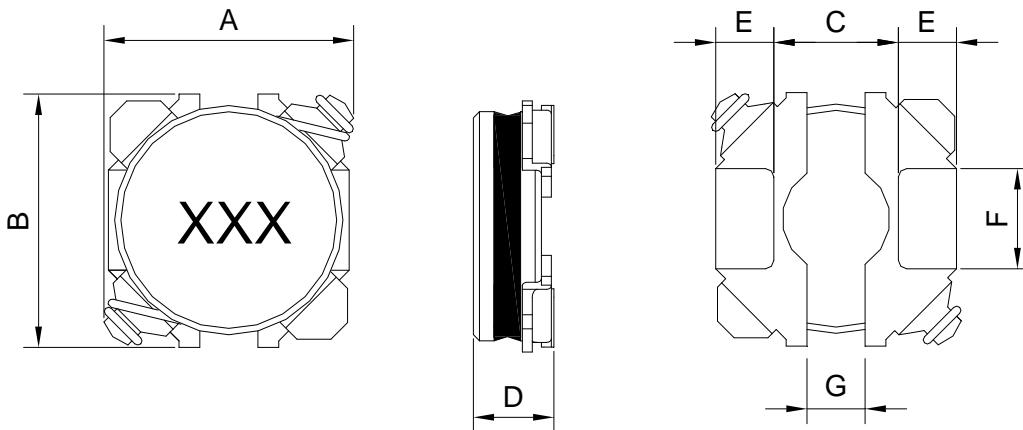
RoHS Compliant

### PART NUMBERING SYSTEM

<b>SSB</b>	<b>5010D</b>	—	<b>3 R 3 N</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

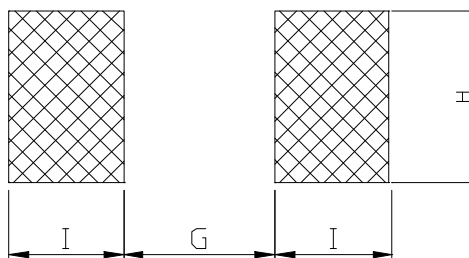
UNIT : mm



**A=5.1 Max. B=5.1 Max. D=1.0 Max.**

### RECOMMENDED PATTERNS

UNIT : mm



**G=1.4 H=5.4 I=2.0**



## SSB5010D SERIES

### Low Profile Shielded Power Inductors



RoHS Compliant

#### ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) Max.(Typ.)	Isat (A) ( Max. )	Irms (A) ( Max. )	Stamp
SSB5010D-1R0N-LF	1.0 $\pm$ 30%	64.8m(54m)	1.80	2.00	1R0
SSB5010D-1R5N-LF	1.5 $\pm$ 30%	80.40m(67m)	1.50	1.80	1R5
SSB5010D-2R2N-LF	2.2 $\pm$ 30%	97.2m(81m)	1.20	1.70	2R2
SSB5010D-3R3N-LF	3.3 $\pm$ 30%	0.116(96m)	1.05	1.60	3R3
SSB5010D-4R7M-LF	4.7 $\pm$ 20%	0.168(0.14)	0.80	1.35	4R7
SSB5010D-6R8N-LF	6.8 $\pm$ 20%	0.216(0.18)	0.70	1.20	6R8
SSB5010D-100M-LF	10 $\pm$ 20%	0.264(0.22)	0.65	1.10	100
SSB5010D-150M-LF	15 $\pm$ 20%	0.372(0.31)	0.53	0.93	150
SSB5010D-220M-LF	22 $\pm$ 20%	0.540(0.45)	0.47	0.75	220
SSB5010D-330M-LF	33 $\pm$ 20%	0.816(0.68)	0.35	0.57	330
SSB5010D-470M-LF	47 $\pm$ 20%	1.320(1.10)	0.30	0.45	470

- 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 $^{\circ}$ C . ( Ta=+25 $^{\circ}$ C )  
 Operating temperature range -40 $^{\circ}$ C to +85 $^{\circ}$ C , Electrical specifications at 25 $^{\circ}$ C.