

## SDS3012E SERIES ~ Shielded SMD Power Inductors

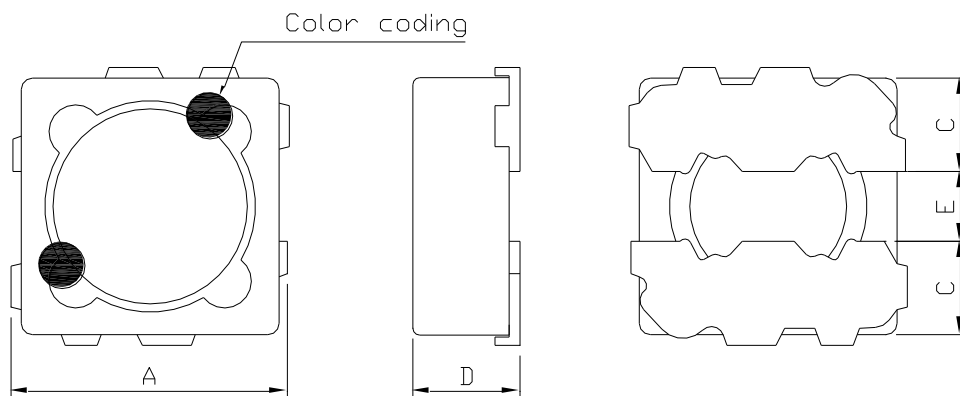


### PART NUMBERING SYSTEM

<b>SDS</b>	<b>3012E</b>	—	<b>220M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

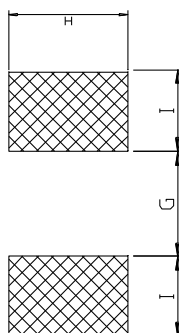
UNIT : mm



**A=3.4 Max. B=3.4 Max. C=1.1 Typ. D=1.05 Max. E=0.8 Ref.**

### RECOMMENDED PATTERNS

UNIT : mm



**G=0.8 H=3.6 I=1.4**

### FEATURES

- Compact, Low profile shielded power inductor – only 1,05 mm high, 3.2 mm square
- Ideal for high-density applications
- Flat bottom surface ensure secure, reliable mounting.
- Handles current up to 1.4 Amps!
- RoHS-compliant. 260°C compatible.



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (Typ.)	Isat ( A )	Irms ( A ) @ 25°C Rise	TEST FREQ. ( f )
SDS3012E-1R2M-LF	1.2 $\pm$ 20%	0.078	1.40	1.50	1KHz/1V
SDS3012E-1R5M-LF	1.5 $\pm$ 20%	0.087	1.36	1.40	1KHz/1V
SDS3012E-1R8M-LF	1.8 $\pm$ 20%	0.097	1.24	1.35	1KHz/1V
SDS3012E-2R2M-LF	2.2 $\pm$ 20%	0.106	1.08	1.25	1KHz/1V
SDS3012E-3R3M-LF	3.3 $\pm$ 20%	0.180	0.88	1.00	1KHz/1V
SDS3012E-4R7M-LF	4.7 $\pm$ 20%	0.280	0.82	0.85	1KHz/1V
SDS3012E-6R8M-LF	6.8 $\pm$ 20%	0.375	0.60	0.70	1KHz/1V
SDS3012E-100M-LF	10 $\pm$ 20%	0.502	0.56	0.60	1KHz/1V
SDS3012E-150M-LF	15 $\pm$ 20%	0.800	0.40	0.50	1KHz/1V
SDS3012E-220M-LF	22 $\pm$ 20%	1.100	0.32	0.40	1KHz/1V

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.
- Isat : DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: Current that causes the specified temperature rise from 25°C ambient.
- Operating temperature range -40°C to +125°C .
- Electrical specifications at 25°C.
- Packing Qty 2,000pcs with 7' reel ( 178mm )