

## SDS3015ELD SERIES ~ Shielded SMD Power Inductors

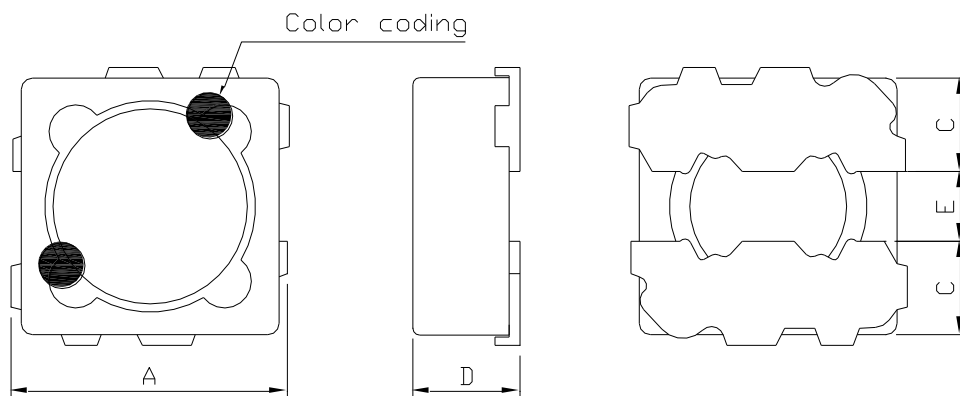


### PART NUMBERING SYSTEM

<b>SDS</b>	<b>3015ELD</b>	—	<b>3R3N</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

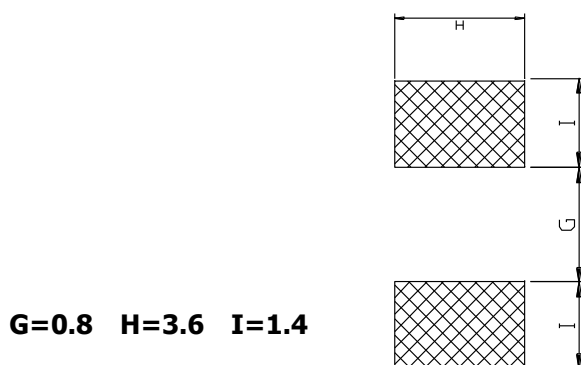
UNIT : mm



**A=3.4 Max. B=3.4 Max. C=1.1 Typ. D=1.60 Max. E=0.8 Ref.**

### RECOMMENDED PATTERNS

UNIT : mm



### FEATURES

1. Compact, Low profile shielded power inductor – only 1,60 mm high, 3,4 mm square
2. Ideal for high-density applications
3. Flat bottom surface ensure secure, reliable mounting.
4. Handles current up to 1.4 Amps!
5. 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 )
SDS3015ELD-1R0N-LF	1.0 $\pm$ 30%	0.038	1.40	1.80	1KHz/1V
SDS3015ELD-1R2N-LF	1.2 $\pm$ 30%	0.041	1.30	1.74	1KHz/1V
SDS3015ELD-1R5N-LF	1.5 $\pm$ 30%	0.046	1.22	1.70	1KHz/1V
SDS3015ELD-1R8N-LF	1.8 $\pm$ 30%	0.058	1.16	1.64	1KHz/1V
SDS3015ELD-2R2N-LF	2.2 $\pm$ 30%	0.066	1.10	1.60	1KHz/1V
SDS3015ELD-2R7N-LF	2.7 $\pm$ 30%	0.070	0.93	1.45	1KHz/1V
SDS3015ELD-3R3N-LF	3.3 $\pm$ 30%	0.091	0.90	1.24	1KHz/1V
SDS3015ELD-3R9N-LF	3.9 $\pm$ 30%	0.115	0.82	1.12	1KHz/1V
SDS3015ELD-4R7N-LF	4.7 $\pm$ 30%	0.132	0.74	1.10	1KHz/1V
SDS3015ELD-5R6N-LF	5.6 $\pm$ 30%	0.156	0.70	1.06	1KHz/1V
SDS3015ELD-6R8N-LF	6.8 $\pm$ 30%	0.166	0.62	1.00	1KHz/1V
SDS3015ELD-8R2N-LF	8.2 $\pm$ 30%	0.230	0.58	0.90	1KHz/1V
SDS3015ELD-100M-LF	10 $\pm$ 20%	0.244	0.50	0.80	1KHz/1V
SDS3015ELD-120M-LF	12 $\pm$ 20%	0.324	0.44	0.70	1KHz/1V
SDS3015ELD-150M-LF	15 $\pm$ 20%	0.370	0.42	0.70	1KHz/1V
SDS3015ELD-180M-LF	18 $\pm$ 20%	0.489	0.38	0.62	1KHz/1V
SDS3015ELD-220M-LF	22 $\pm$ 20%	0.450	0.34	0.48	1KHz/1V

- Inductance tested at 1kHz, 1 Vrms, 0 Adc using an Agilent/HP 4284A LCR meter or equivalent.
- Isat : DC current at which the inductance drops 35% (typ) from its value without current.
- I rms: 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 1,000pcs with 7' reel ( 178mm )