

## SDS4018EHP SERIES ~ Shielded SMD Power Inductors

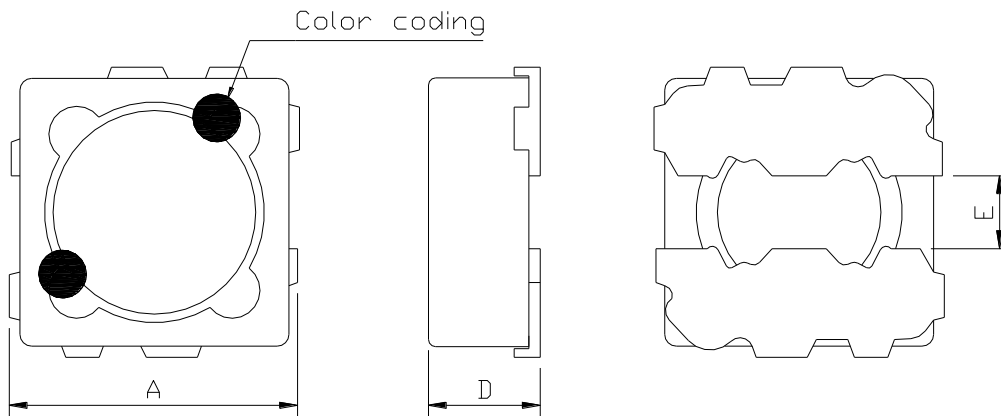


### PART NUMBERING SYSTEM

<b>SDS</b>	<b>4018EHP</b>	—	<b>150M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

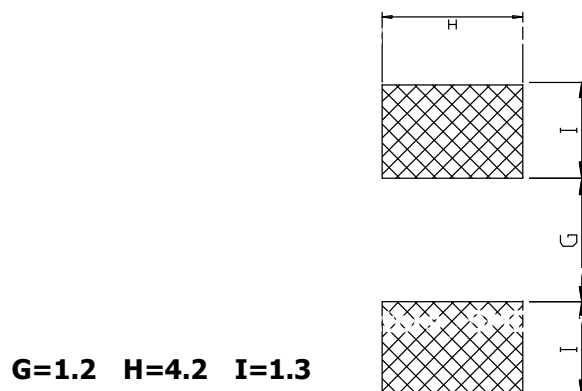
UNIT : mm



**A=4.4 Max. B=4.4 Max. D=1.80 Max. E=1.2 Ref.**

### RECOMMENDED PATTERNS

UNIT : mm



**G=1.2 H=4.2 I=1.3**

### FEATURES

- Compact, Low profile shielded power inductor – only 1,80 mm high, 4.2 mm square
- Ideal for high-density applications
- Flat bottom surface ensure secure, reliable mounting.
- Handles current up to 3.5 Amps!
- RoHS-compliant. 260°C compatible.



## SDS4018EHP SERIES ~ Shielded SMD Power Inductors



### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (Typ.)	Isat ( A )	Irms ( A ) @ 25°C Rise	TEST FREQ. ( f )
SDS4018EHP-1R0N-LF	1.0 $\pm$ 30%	0.038	3.20	2.40	1KHz/1V
SDS4018EHP-1R2N-LF	1.2 $\pm$ 30%	0.044	3.00	2.20	1KHz/1V
SDS4018EHP -1R5N-LF	1.5 $\pm$ 30%	0.050	2.70	2.20	1KHz/1V
SDS4018EHP-1R8N-LF	1.8 $\pm$ 30%	0.058	2.40	2.00	1KHz/1V
SDS4018EHP -2R2N-LF	2.2 $\pm$ 30%	0.062	2.20	1.90	1KHz/1V
SDS4018EHP-2R7N-LF	2.7 $\pm$ 30%	0.068	2.10	1.80	1KHz/1V
SDS4018EHP -3R3N-LF	3.3 $\pm$ 30%	0.080	1.88	1.65	1KHz/1V
SDS4018EHP-3R9N-LF	3.9 $\pm$ 30%	0.084	1.80	1.56	1KHz/1V
SDS4018EHP-4R7N-LF	4.7 $\pm$ 30%	0.099	1.46	1.40	1KHz/1V
SDS4018EHP-5R6N-LF	5.6 $\pm$ 30%	0.110	1.38	1.30	1KHz/1V
SDS4018EHP-6R8N-LF	6.8 $\pm$ 30%	0.128	1.26	1.20	1KHz/1V
SDS4018EHP-8R2N-LF	8.2 $\pm$ 30%	0.146	1.24	1.15	1KHz/1V
SDS4018EHP-100M-LF	10 $\pm$ 20%	0.165	1.10	1.05	1KHz/1V
SDS4018EHP-120M-LF	12 $\pm$ 20%	0.254	1.00	0.80	1KHz/1V
SDS4018EHP-150M-LF	15 $\pm$ 20%	0.320	0.88	0.72	1KHz/1V
SDS4018EHP-180M-LF	18 $\pm$ 20%	0.360	0.84	0.68	1KHz/1V
SDS4018EHP-220M-LF	22 $\pm$ 20%	0.418	0.74	0.65	1KHz/1V
SDS4018EHP-270M-LF	27 $\pm$ 20%	0.450	0.70	0.60	1KHz/1V
SDS4018EHP-330M-LF	33 $\pm$ 20%	0.620	0.58	0.58	1KHz/1V
SDS4018EHP-390M-LF	39 $\pm$ 20%	0.650	0.56	0.48	1KHz/1V
SDS4018EHP-470M-LF	47 $\pm$ 20%	0.790	0.52	0.45	1KHz/1V
SDS4018EHP-560M-LF	56 $\pm$ 20%	0.862	0.48	0.40	1KHz/1V
SDS4018EHP-680M-LF	68 $\pm$ 20%	1.000	0.40	0.36	1KHz/1V
SDS4018EHP-101M-LF	100 $\pm$ 20%	1.380	0.32	0.36	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.
- 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 1,000pcs with 7' reel ( 178mm )