



## SDS4018E SERIES ~ Shielded SMD Power Inductors

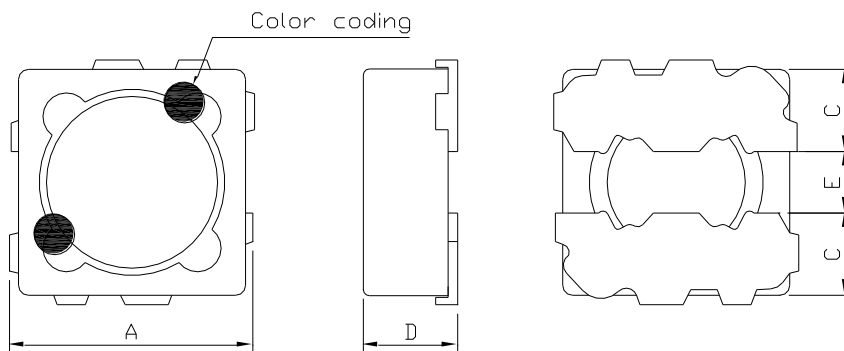


### PART NUMBERING SYSTEM

<b>SDS</b>	<b>4218E</b>	—	<b>150M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

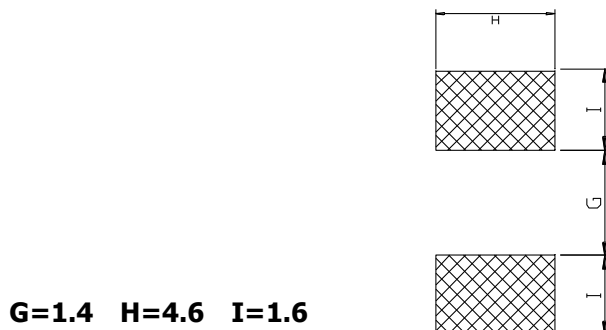
UNIT : mm



**A=4.4 Max. B=4.4 Max. C=1.3 Typ. D=1.80 Max**

### RECOMMENDED PATTERNS

UNIT : mm



### FEATURES

- Compact, Low profile shielded power inductor – only 1,8 mm high, 4.4 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.



## **SDS4018E SERIES ~ Shielded SMD Power Inductors**

### **SPECIFICATION TABLE**

<b>PART NUMBER</b>	<b>INDUCTANCE (<math>\mu</math> H)</b>	<b>DCR (<math>\Omega</math>) (Typ.)</b>	<b>Isat ( A )</b>	<b>Irms ( A ) @ 25°C Rise</b>	<b>TEST FREQ. ( f )</b>
SDS4218E-1R0N-LF	1.0 $\pm$ 30%	0.038	3.20	2.40	1KHz/1V
SDS4218E-1R2N-LF	1.2 $\pm$ 30%	0.044	3.00	2.20	1KHz/1V
SDS4218E-1R5N-LF	1.5 $\pm$ 30%	0.050	2.70	2.20	1KHz/1V
SDS4218E-1R8N-LF	1.8 $\pm$ 30%	0.058	2.40	2.00	1KHz/1V
SDS4218E-2R2N-LF	2.2 $\pm$ 30%	0.062	2.20	1.90	1KHz/1V
SDS4218E-2R7N-LF	2.7 $\pm$ 30%	0.068	2.10	1.80	1KHz/1V
SDS4218E-3R3N-LF	3.3 $\pm$ 30%	0.080	1.88	1.65	1KHz/1V
SDS4218E-3R9N-LF	3.9 $\pm$ 30%	0.084	1.80	1.56	1KHz/1V
SDS4218E-4R7N-LF	4.7 $\pm$ 30%	0.099	1.46	1.45	1KHz/1V
SDS4218E-5R6N-LF	5.6 $\pm$ 30%	0.110	1.48	1.30	1KHz/1V
SDS4218E-6R8N-LF	6.8 $\pm$ 30%	0.128	1.26	1.20	1KHz/1V
SDS4218E-8R2N-LF	8.2 $\pm$ 30%	0.146	1.24	1.15	1KHz/1V
SDS4218E-100M-LF	10 $\pm$ 20%	0.165	1.10	1.05	1KHz/1V
SDS4218E-120M-LF	12 $\pm$ 20%	0.254	1.00	0.80	1KHz/1V
SDS4218E-150M-LF	15 $\pm$ 20%	0.320	0.88	0.72	1KHz/1V
SDS4218E-180M-LF	18 $\pm$ 20%	0.360	0.84	0.68	1KHz/1V
SDS4218E-220M-LF	22 $\pm$ 20%	0.418	0.74	0.65	1KHz/1V
SDS4218E-270M-LF	27 $\pm$ 20%	0.450	0.70	0.60	1KHz/1V
SDS4218E-330M-LF	33 $\pm$ 20%	0.620	0.58	0.58	1KHz/1V
SDS4218E-390M-LF	39 $\pm$ 20%	0.650	0.56	0.48	1KHz/1V
SDS4218E-470M-LF	47 $\pm$ 20%	0.790	0.52	0.45	1KHz/1V
SDS4218E-560M-LF	56 $\pm$ 20%	0.862	0.48	0.40	1KHz/1V
SDS4218E-680M-LF	68 $\pm$ 20%	0.975	0.40	0.36	1KHz/1V
SDS4218E-101M-LF	100 $\pm$ 20%	1.380	0.32	0.36	1KHz/1V
SDS4218E-151M-LF	150 $\pm$ 20%	2.410	0.24	0.32	1KHz/1V
SDS4218E-221M-LF	220 $\pm$ 20%	3.900	0.23	0.29	1KHz/1V
SDS4218E-331M-LF	330 $\pm$ 20%	5.710	0.18	0.24	1KHz/1V
SDS4218E-471M-LF	470 $\pm$ 20%	8.420	0.15	0.19	1KHz/1V
SDS4218E-681M-LF	680 $\pm$ 20%	10.30	0.13	0.16	1KHz/1V
SDS4218E-102M-LF	1000 $\pm$ 20%	15.20	0.10	0.13	1KHz/1V
SDS4218E-152M-LF	1500 $\pm$ 20%	25.00	0.09	0.10	1KHz/1V

- 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.