

SDS4018E SERIES ~

Low Profile Shielded Power Inductors



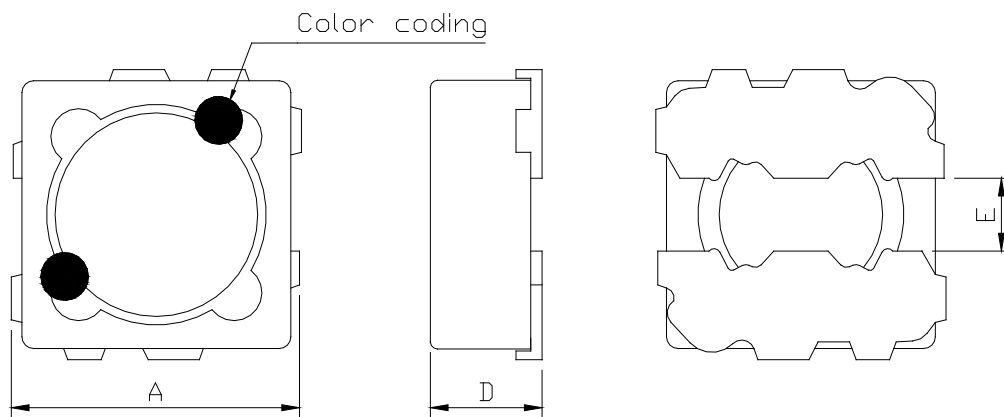
RoHS Compliant

PART NUMBERING SYSTEM

<u>SDS</u>	<u>4018E</u>	—	<u>1 0 0 M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

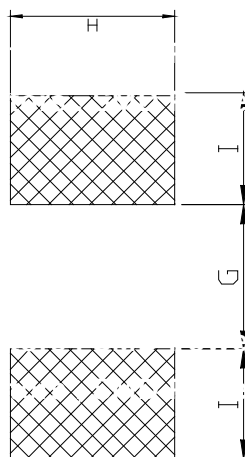
UNIT : mm



A=4.0 Max. B=4.0 Max. D=1.85 Max. E=1.2 Ref.

RECOMMENDED PATTERNS

UNIT : mm



G=1.2 H=4.2 I=1.5

FEATURES

- Compact, Low profile shielded power inductor – only 1,85 mm high, 4.0 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.

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (Ω) (Typ.)	Isat (A)	Irms (A) @ 25°C Rise	TEST FREQ. (f)
SDS4018E-1R0N-LF	1.0 $\pm$ 30%	0.046	3.50	2.30	1KHz/1V
SDS4018E-1R2N-LF	1.2 $\pm$ 30%	0.049	3.40	2.30	1KHz/1V
SDS4018E -1R5N-LF	1.5 $\pm$ 30%	0.053	3.10	2.10	1KHz/1V
SDS4018E-1R8N-LF	1.8 $\pm$ 30%	0.080	2.70	1.78	1KHz/1V
SDS4018E -2R2N-LF	2.2 $\pm$ 30%	0.088	2.50	1.66	1KHz/1V
SDS4018E-2R7N-LF	2.7 $\pm$ 30%	0.097	2.26	1.38	1KHz/1V
SDS4018E -3R3N-LF	3.3 $\pm$ 30%	0.115	2.04	1.24	1KHz/1V
SDS4018E-3R9N-LF	3.9 $\pm$ 30%	0.126	1.94	1.18	1KHz/1V
SDS4018E-4R7N-LF	4.7 $\pm$ 30%	0.147	1.70	1.10	1KHz/1V
SDS4018E-5R6N-LF	5.6 $\pm$ 30%	0.163	1.66	1.00	1KHz/1V
SDS4018E-6R8N-LF	6.8 $\pm$ 30%	0.203	1.48	0.94	1KHz/1V
SDS4018E-8R2N-LF	8.2 $\pm$ 30%	0.259	1.26	0.88	1KHz/1V
SDS4018E-100M-LF	10 $\pm$ 20%	0.286	1.20	0.86	1KHz/1V
SDS4018E-120M-LF	12 $\pm$ 20%	0.330	1.12	0.80	1KHz/1V
SDS4018E-150M-LF	15 $\pm$ 20%	0.440	1.02	0.78	1KHz/1V
SDS4018E-180M-LF	18 $\pm$ 20%	0.512	0.96	0.58	1KHz/1V
SDS4018E-220M-LF	22 $\pm$ 20%	0.555	0.88	0.56	1KHz/1V
SDS4018E-270M-LF	27 $\pm$ 20%	0.747	0.74	0.46	1KHz/1V
SDS4018E-330M-LF	33 $\pm$ 20%	1.032	0.66	0.40	1KHz/1V
SDS4018E-390M-LF	39 $\pm$ 20%	1.133	0.64	0.38	1KHz/1V
SDS4018E-470M-LF	47 $\pm$ 20%	1.283	0.56	0.34	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)