



SDS4018E SERIES ~ **New Products**



RoHS Compliant

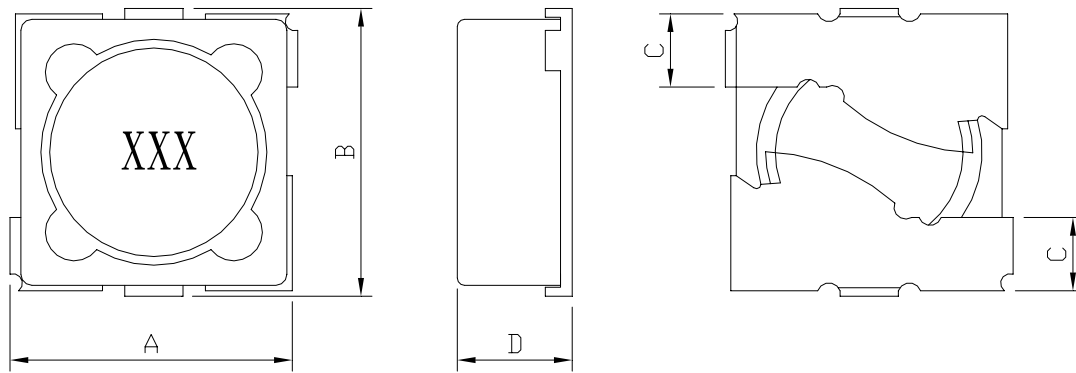
Low Profile Shielded Power Inductors

PART NUMBERING SYSTEM

SDS	4018E	—	100M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

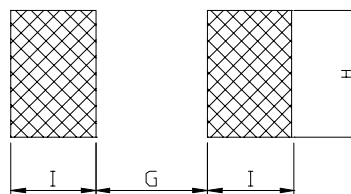
UNIT : mm



A=4.0 Max. B=4.0 Max. C=1.2 Typ. D=1.85 Max.

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) (Max.)	Isat (A)	Irms (A) @ 25°C Rise	TEST FREQ. (f)
SDS4018E-1R0N-LF	1.0 \pm 30%	0.055	3.50	2.30	1KHz/1V
SDS4018E-1R2N-LF	1.2 \pm 30%	0.059	3.40	2.30	1KHz/1V
SDS4018E -1R5N-LF	1.5 \pm 30%	0.064	3.10	2.10	1KHz/1V
SDS4018E-1R8N-LF	1.8 \pm 30%	0.096	2.70	1.78	1KHz/1V
SDS4018E -2R2N-LF	2.2 \pm 30%	0.106	2.50	1.66	1KHz/1V
SDS4018E-2R7N-LF	2.7 \pm 30%	0.117	2.26	1.38	1KHz/1V
SDS4018E -3R3N-LF	3.3 \pm 30%	0.138	2.04	1.24	1KHz/1V
SDS4018E-3R9N-LF	3.9 \pm 30%	0.151	1.94	1.18	1KHz/1V
SDS4018E-4R7N-LF	4.7 \pm 30%	0.177	1.70	1.10	1KHz/1V
SDS4018E-5R6N-LF	5.6 \pm 30%	0.196	1.66	1.00	1KHz/1V
SDS4018E-6R8N-LF	6.8 \pm 30%	0.244	1.48	0.94	1KHz/1V
SDS4018E-8R2N-LF	8.2 \pm 30%	0.311	1.26	0.88	1KHz/1V
SDS4018E-100M-LF	10 \pm 20%	0.343	1.20	0.86	1KHz/1V
SDS4018E-120M-LF	12 \pm 20%	0.396	1.12	0.80	1KHz/1V
SDS4018E-150M-LF	15 \pm 20%	0.528	1.02	0.78	1KHz/1V
SDS4018E-180M-LF	18 \pm 20%	0.615	0.96	0.58	1KHz/1V
SDS4018E-220M-LF	22 \pm 20%	0.666	0.88	0.56	1KHz/1V
SDS4018E-270M-LF	27 \pm 20%	0.897	0.74	0.46	1KHz/1V
SDS4018E-330M-LF	33 \pm 20%	1.239	0.66	0.40	1KHz/1V
SDS4018E-390M-LF	39 \pm 20%	1.360	0.64	0.38	1KHz/1V
SDS4018E-470M-LF	47 \pm 20%	1.540	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.
- Electrical specifications at 25°C.
- Packing Qty 1,000pcs with 7' reel (178mm)