

SDS4218E SERIES ~

Low Profile Shielded Power Inductors



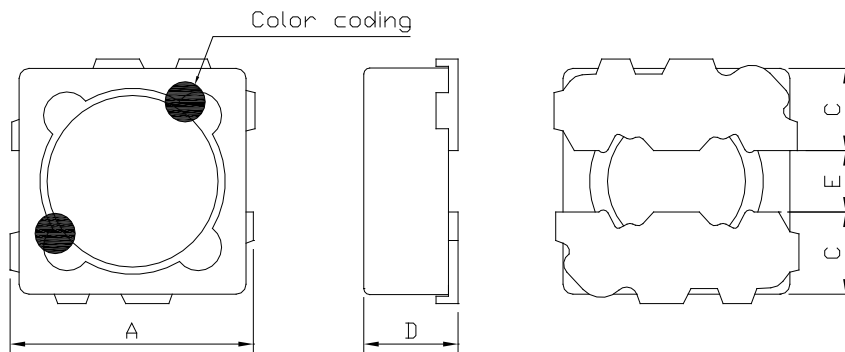
RoHS Compliant

PART NUMBERING SYSTEM

<u>SDS</u>	<u>4218E</u>	—	<u>1 0 0 M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

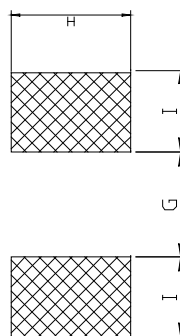
UNIT : mm



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

RECOMMENDED PATTERNS

UNIT : mm



G=1.4 H=4.6 I=1.6

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.

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (Ω) (Typ.)	Isat (A)	Irms (A) @ 25°C Rise	TEST FREQ. (f)
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

- 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)