

SDS4215E SERIES ~

Low Profile Shielded Power Inductors



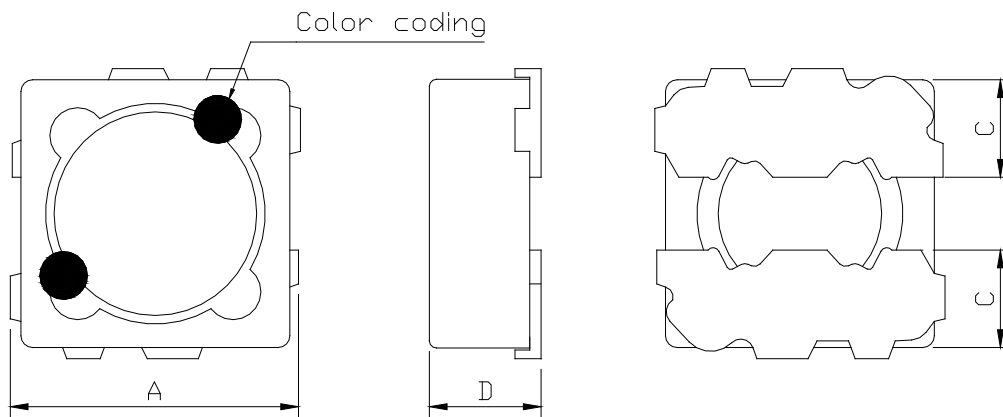
RoHS Compliant

PART NUMBERING SYSTEM

<u>SDS</u>	<u>4215E</u>	—	<u>1 0 0 M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

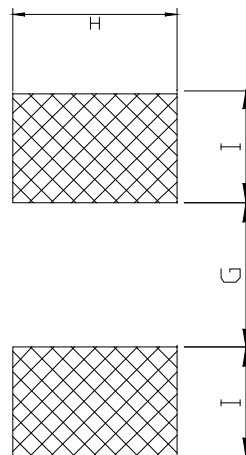
UNIT : mm



A=4.4 Max. B=4.4 Max. C=1.3 Typ. D=1.60 Max

RECOMMENDED PATTERNS

UNIT : mm



G=1.4 H=4.6 I=1.6

FEATURES

- Compact, Low profile shielded power inductor – only 1,60 mm high, 4.4 mm square
- Ideal for high-density applications
- Flat bottom surface ensure secure , reliable mounting .
- Handles current up to 3.4 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)
SDS4215E-1R0N-LF	1.0 $\pm$ 30%	0.040	3.00	2.40	1KHz/1V
SDS4215E -1R2N-LF	1.2 $\pm$ 30%	0.043	2.80	2.34	1KHz/1V
SDS4215E -1R5N-LF	1.5 $\pm$ 30%	0.050	2.60	2.30	1KHz/1V
SDS4215E -1R8N-LF	1.8 $\pm$ 30%	0.055	2.30	2.10	1KHz/1V
SDS4215E -2R2N-LF	2.2 $\pm$ 30%	0.071	2.20	2.00	1KHz/1V
SDS4215E -2R7N-LF	2.7 $\pm$ 30%	0.078	2.00	1.60	1KHz/1V
SDS4215E -3R3N-LF	3.3 $\pm$ 30%	0.087	2.00	1.60	1KHz/1V
SDS4215E-3R9N-LF	3.9 $\pm$ 30%	0.100	1.80	1.50	1KHz/1V
SDS4215E-4R7N-LF	4.7 $\pm$ 30%	0.137	1.60	1.40	1KHz/1V
SDS4215E-5R6N-LF	5.6 $\pm$ 30%	0.147	1.46	1.20	1KHz/1V
SDS4215E-6R8N-LF	6.8 $\pm$ 30%	0.170	1.40	1.15	1KHz/1V
SDS4215E-8R2N-LF	8.2 $\pm$ 30%	0.195	1.28	1.10	1KHz/1V
SDS4215E-100M-LF	10 $\pm$ 20%	0.228	1.16	1.02	1KHz/1V
SDS4215E-120M-LF	12 $\pm$ 20%	0.275	1.08	0.90	1KHz/1V
SDS4215E-150M-LF	15 $\pm$ 20%	0.340	0.86	0.72	1KHz/1V
SDS4215E-180M-LF	18 $\pm$ 20%	0.380	0.82	0.68	1KHz/1V
SDS4215E-220M-LF	22 $\pm$ 20%	0.495	0.74	0.65	1KHz/1V
SDS4215E-270M-LF	27 $\pm$ 20%	0.735	0.70	0.55	1KHz/1V
SDS4215E-330M-LF	33 $\pm$ 20%	0.890	0.58	0.48	1KHz/1V
SDS4215E-390M-LF	39 $\pm$ 20%	1.000	0.56	0.42	1KHz/1V
SDS4215E-470M-LF	47 $\pm$ 20%	1.150	0.52	0.35	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)