



## Low Profile Shielded Power Inductors - SDS4215E SERIES

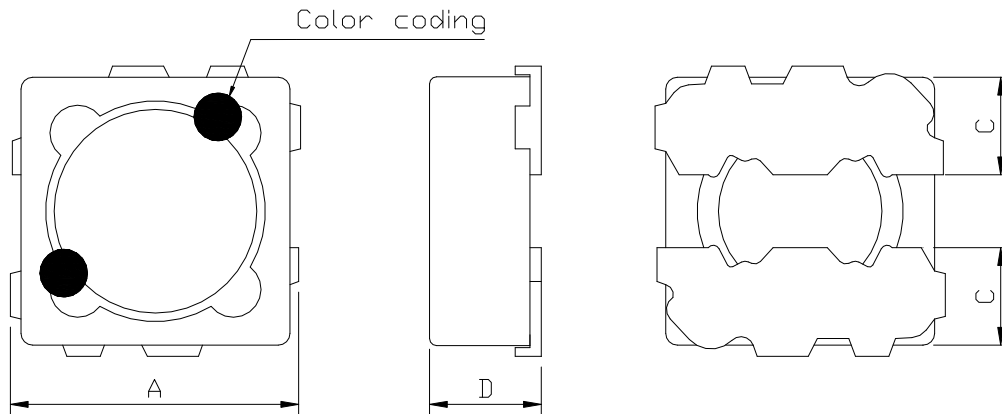


### PART NUMBERING SYSTEM

<b>SDS</b>	<b>4215E</b>	—	<b>4R7N</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

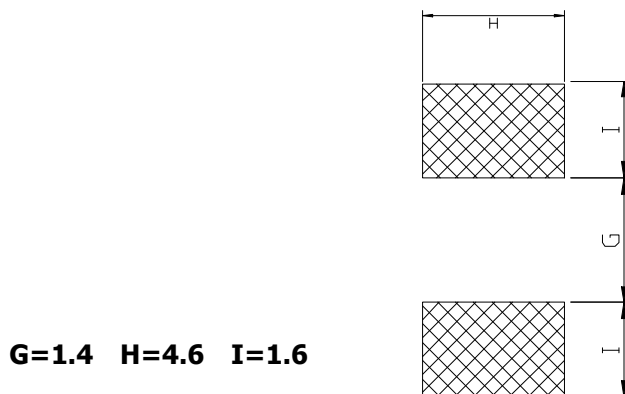
UNIT : mm



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

### RECOMMENDED PATTERNS

UNIT : mm



### 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 ( $\mu$ H)	DCR ( $\Omega$ ) (Typ.)	Isat (A)	Irms (A) @ 25°C Rise	TEST FREQ. (Freq.)
SDS4215E-1R0N-LF	1.0±30%	0.040	3.00	2.40	1KHz/1V
SDS4215E -1R2N-LF	1.2±30%	0.043	2.80	2.34	1KHz/1V
SDS4215E -1R5N-LF	1.5±30%	0.050	2.60	2.30	1KHz/1V
SDS4215E -1R8N-LF	1.8±30%	0.055	2.30	2.10	1KHz/1V
SDS4215E -2R2N-LF	2.2±30%	0.071	2.20	2.00	1KHz/1V
SDS4215E -2R7N-LF	2.7±30%	0.078	2.00	1.60	1KHz/1V
SDS4215E -3R3N-LF	3.3±30%	0.087	2.00	1.60	1KHz/1V
SDS4215E-3R9N-LF	3.9±30%	0.100	1.80	1.50	1KHz/1V
SDS4215E-4R7N-LF	4.7±30%	0.137	1.60	1.40	1KHz/1V
SDS4215E-5R6N-LF	5.6±30%	0.147	1.46	1.20	1KHz/1V
SDS4215E-6R8N-LF	6.8±30%	0.170	1.40	1.15	1KHz/1V
SDS4215E-8R2N-LF	8.2±30%	0.195	1.28	1.10	1KHz/1V
SDS4215E-100M-LF	10±20%	0.228	1.16	1.02	1KHz/1V
SDS4215E-120M-LF	12±20%	0.275	1.08	0.90	1KHz/1V
SDS4215E-150M-LF	15±20%	0.340	0.86	0.72	1KHz/1V
SDS4215E-180M-LF	18±20%	0.380	0.82	0.68	1KHz/1V
SDS4215E-220M-LF	22±20%	0.495	0.74	0.65	1KHz/1V
SDS4215E-270M-LF	27±20%	0.735	0.70	0.55	1KHz/1V
SDS4215E-330M-LF	33±20%	0.890	0.58	0.48	1KHz/1V
SDS4215E-390M-LF	39±20%	1.000	0.56	0.42	1KHz/1V
SDS4215E-470M-LF	47±20%	1.150	0.52	0.35	1KHz/1V
SDS4215E-102M-LF	1,000±20%	25.00	0.09	0.10	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 )