

Shielded SMD Power Inductors - SDS4212E SERIES

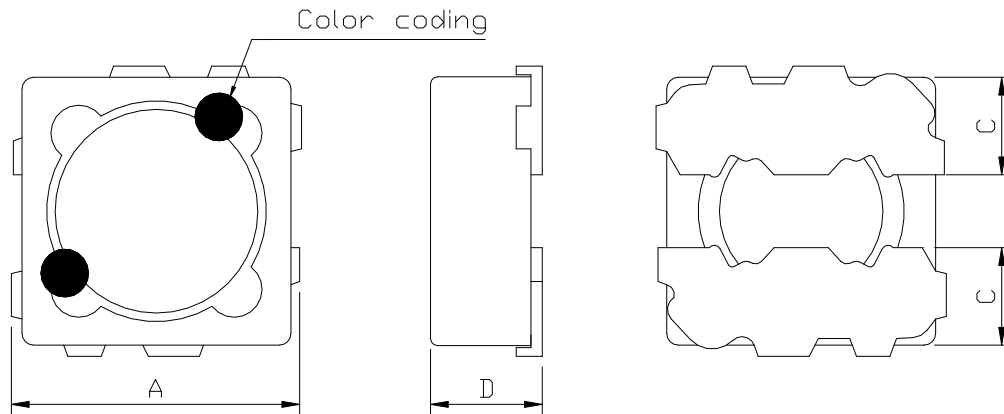


PART NUMBERING SYSTEM

SDS	4212E	—	100M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

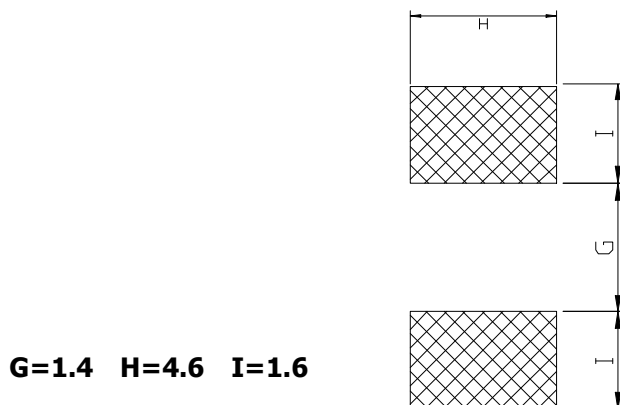
UNIT : mm



A=4.4 Max. B=4.4 Max. C=1.3 Typ. D=1.25 Max.

RECOMMENDED PATTERNS

UNIT : mm



G=1.4 H=4.6 I=1.6

FEATURES

- Compact, Low profile shielded power inductor – only 1,25 mm high, 4.4 mm square
- Ideal for high-density applications
- Flat bottom surface ensure secure , reliable mounting .
- Handles current up to 3.2 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. (Freq.)
SDS4212E-1R0N-LF	1.0 \pm 30%	0.045	3.00	2.00	1KHz/1V
SDS4212E -1R2N-LF	1.2 \pm 30%	0.048	2.80	1.90	1KHz/1V
SDS4212E -1R5N-LF	1.5 \pm 30%	0.055	2.40	1.80	1KHz/1V
SDS4212E -1R8N-LF	1.8 \pm 30%	0.073	2.30	1.75	1KHz/1V
SDS4212E -2R2N-LF	2.2 \pm 30%	0.083	2.10	1.75	1KHz/1V
SDS4212E -2R7N-LF	2.7 \pm 30%	0.109	1.70	1.44	1KHz/1V
SDS4212E -3R3N-LF	3.3 \pm 30%	0.118	1.70	1.40	1KHz/1V
SDS4212E-3R9N-LF	3.9 \pm 30%	0.143	1.60	1.30	1KHz/1V
SDS4212E-4R7N-LF	4.7 \pm 30%	0.159	1.58	1.20	1KHz/1V
SDS4212E-5R6N-LF	5.6 \pm 30%	0.213	1.30	1.00	1KHz/1V
SDS4212E-6R8N-LF	6.8 \pm 30%	0.224	1.30	0.96	1KHz/1V
SDS4212E-8R2N-LF	8.2 \pm 30%	0.252	1.14	0.94	1KHz/1V
SDS4212E-100M-LF	10 \pm 20%	0.327	1.06	0.90	1KHz/1V
SDS4212E-120M-LF	12 \pm 20%	0.363	0.98	0.82	1KHz/1V
SDS4212E-150M-LF	15 \pm 20%	0.516	0.80	0.64	1KHz/1V
SDS4212E-180M-LF	18 \pm 20%	0.625	0.76	0.60	1KHz/1V
SDS4212E-220M-LF	22 \pm 20%	0.732	0.64	0.52	1KHz/1V
SDS4212E-330M-LF	33 \pm 20%	1.165	0.50	0.42	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)