



SDS4212E SERIES ~ **New Products**



RoHS Compliant

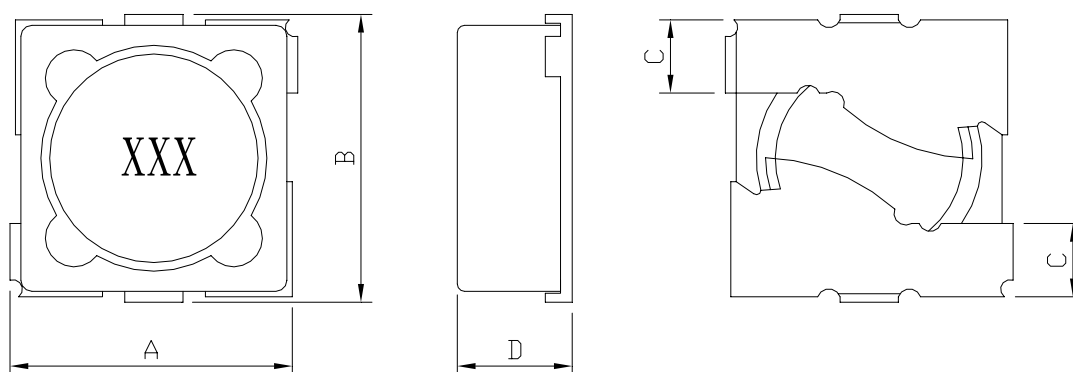
Low Profile Shielded Power Inductors

PART NUMBERING SYSTEM

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

SHAPES AND DIMENSIONS

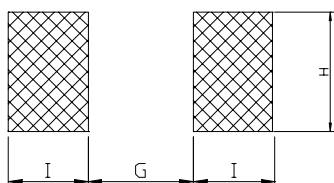
UNIT : mm



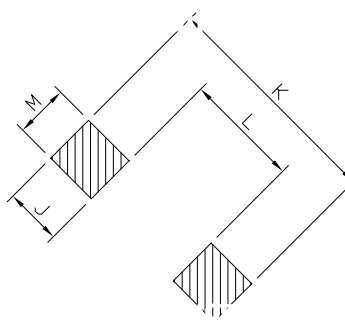
A=4.4 Max. B=4.4 Max. C=1.2 Typ. D=1.25 Max

RECOMMENDED PATTERNS

UNIT : mm



G=1.4 H=4.6 I=1.6



J=1.4 K=5.20 L=2.4 M=1.5

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) (Max.)	Isat (A)	Irms (A) @ 25°C Rise	TEST FREQ. (f)
SDS4212E-1R0N-LF	1.0 \pm 30%	0.054	3.00	2.00	1KHz/1V
SDS4212E -1R2N-LF	1.2 \pm 30%	0.058	2.80	1.90	1KHz/1V
SDS4212E -1R5N-LF	1.5 \pm 30%	0.066	2.40	1.80	1KHz/1V
SDS4212E -1R8N-LF	1.8 \pm 30%	0.088	2.30	1.75	1KHz/1V
SDS4212E -2R2N-LF	2.2 \pm 30%	0.100	2.10	1.75	1KHz/1V
SDS4212E -2R7N-LF	2.7 \pm 30%	0.131	1.70	1.44	1KHz/1V
SDS4212E -3R3N-LF	3.3 \pm 30%	0.142	1.70	1.40	1KHz/1V
SDS4212E-3R9N-LF	3.9 \pm 30%	0.172	1.60	1.30	1KHz/1V
SDS4212E-4R7N-LF	4.7 \pm 30%	0.191	1.58	1.20	1KHz/1V
SDS4212E-5R6N-LF	5.6 \pm 30%	0.256	1.30	1.00	1KHz/1V
SDS4212E-6R8N-LF	6.8 \pm 30%	0.269	1.30	0.96	1KHz/1V
SDS4212E-8R2N-LF	8.2 \pm 30%	0.303	1.14	0.94	1KHz/1V
SDS4212E-100M-LF	10 \pm 20%	0.393	1.06	0.90	1KHz/1V
SDS4212E-120M-LF	12 \pm 20%	0.436	0.98	0.82	1KHz/1V
SDS4212E-150M-LF	15 \pm 20%	0.619	0.80	0.64	1KHz/1V
SDS4212E-180M-LF	18 \pm 20%	0.750	0.76	0.60	1KHz/1V
SDS4212E-220M-LF	22 \pm 20%	0.879	0.64	0.52	1KHz/1V
SDS4212E-330M-LF	33 \pm 20%	1.398	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.
- Electrical specifications at 25°C.
- Packing Qty 1,000pcs with 7' reel (178mm)