

## SDS4010EHP SERIES ~

### Low Profile Shielded Power Inductors



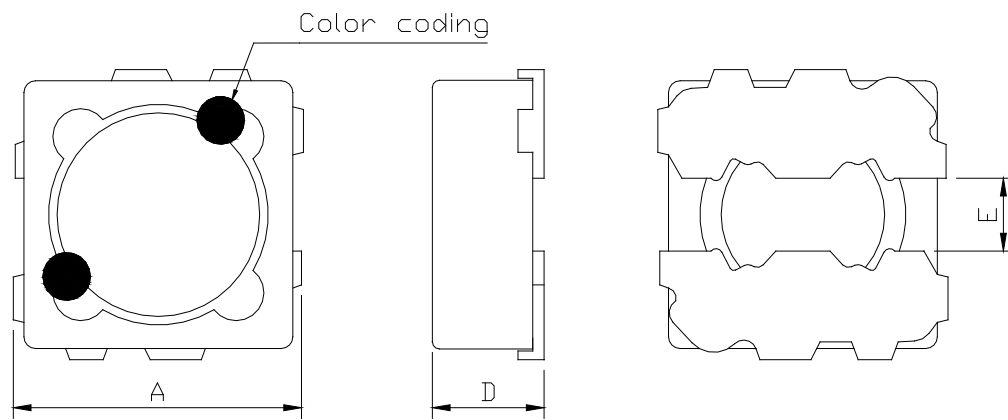
RoHS Compliant

#### PART NUMBERING SYSTEM

<u>SDS</u>	<u>4010EHP</u>	—	<u>100M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

#### SHAPES AND DIMENSIONS

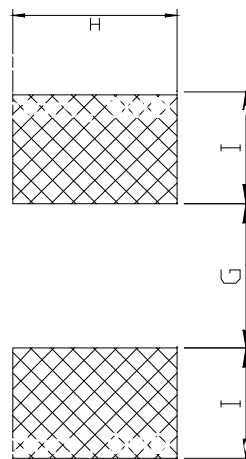
UNIT : mm



**A=4.0 Max. B=4.0 Max. D=1.0 Max. E=1.2 Ref.**

#### RECOMMENDED PATTERNS

UNIT : mm



**G=1.2 H=4.2 I=1.5**

#### FEATURES

- **Compact, Low profile shielded power inductor** – only 1,00 mm high, 4.0 mm square
- **Ideal for high-density applications**
- **Flat bottom surface ensure secure , reliable mounting .**
- **Handles current up to 2.4 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. ( f )
SDS4010EHP-1R0N-LF	1.0 $\pm$ 30%	0.110	2.40	1.50	1KHz/1V
SDS4010EHP-1R5N-LF	1.5 $\pm$ 30%	0.150	2.14	1.30	1KHz/1V
SDS4010EHP-2R2N-LF	2.2 $\pm$ 30%	0.212	1.80	1.02	1KHz/1V
SDS4010EHP-3R3N-LF	3.3 $\pm$ 30%	0.309	1.52	0.88	1KHz/1V
SDS4010EHP-4R7N-LF	4.7 $\pm$ 30%	0.391	1.38	0.80	1KHz/1V
SDS4010EHP-6R8N-LF	6.8 $\pm$ 30%	0.580	1.08	0.60	1KHz/1V
SDS4010EHP-100M-LF	10 $\pm$ 20%	1.029	0.82	0.42	1KHz/1V
SDS4010EHP-150M-LF	15 $\pm$ 20%	1.350	0.74	0.36	1KHz/1V
SDS4010EHP-220M-LF	22 $\pm$ 20%	2.025	0.56	0.30	1KHz/1V
SDS4010EHP-270M-LF	27 $\pm$ 20%	2.399	0.52	0.28	1KHz/1V
SDS4010EHP-330M-LF	33 $\pm$ 20%	2.861	0.46	0.24	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 )