Coilmaster Electronics Co., Ltd.
3F No.211, Huan Bei Rd. Chung Li District , Taoyuan City, Taiwan
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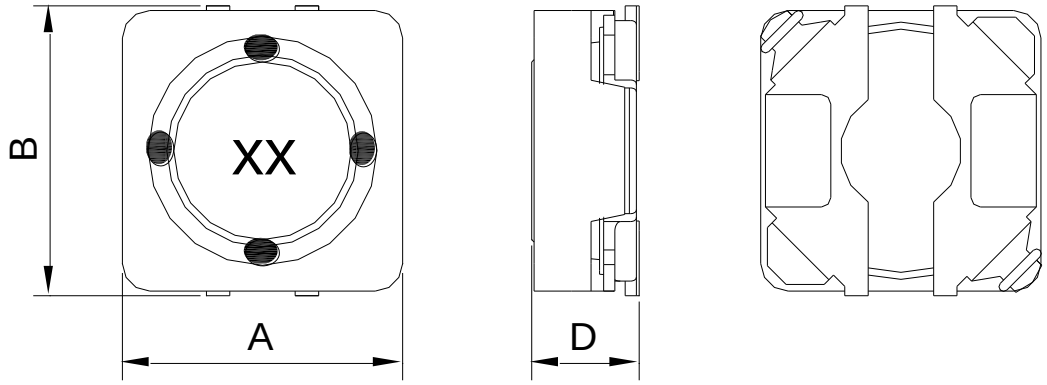
SDS5012D SERIES ~ Shielded SMD Power Inductors

PART NUMBERING SYSTEM

SDS	5012D	—	6R8M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

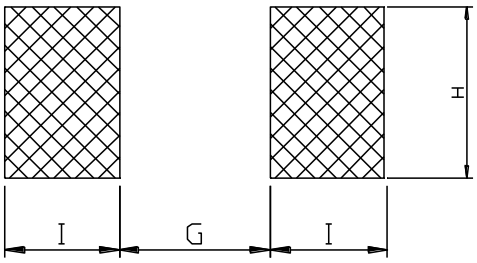
UNIT：mm



A=5.2 Max. B=5.3 Max. D=1.2 Max.

RECOMMENDED PATTERNS

UNIT：mm



G=1.4 H=5.4 I=2.0

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ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE (μH)	DCR (Ω) Max.(Typ.)	Isat (A) (Max.)	Irms (A) (Max.)	Stamp
SDS5012D-1R0N-LF	1.0±30%	54.0m(45m)	2.50	2.30	4A
SDS5012D-1R5N-LF	1.5±30%	62.4m(52m)	2.10	2.00	4C
SDS5012D-2R2N-LF	2.2±30%	85.2m(71m)	1.70	1.70	4E
SDS5012D-3R3N-LF	3.3±30%	96.0m(80m)	1.40	1.50	4G
SDS5012D-4R7M-LF	4.7±20%	0.144(0.12)	1.30	1.30	4I
SDS5012D-6R8M-LF	6.8±20%	0.180(0.15)	1.00	1.10	4K
SDS5012D-100M-LF	10±20%	0.264(0.22)	0.75	1.00	4M
SDS5012D-150M-LF	15±20%	0.384(0.32)	0.65	0.85	4O
SDS5012D-220M-LF	22±20%	0.480(0.43)	0.53	0.70	4Q
SDS5012D-330M-LF	33±20%	0.816(0.68)	0.42	0.50	4S
SDS5012D-470M-LF	47±20%	1.260(1.05)	0.30	0.38	4U

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4284B LCR meter or equivalent.
- Isat : DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: The actual current when temperature of coil becomes ∆40°C . (Ta=+25°C)
  Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.