



Low Profile Shielded SMD Power Inductors ~ SDS3030S Series

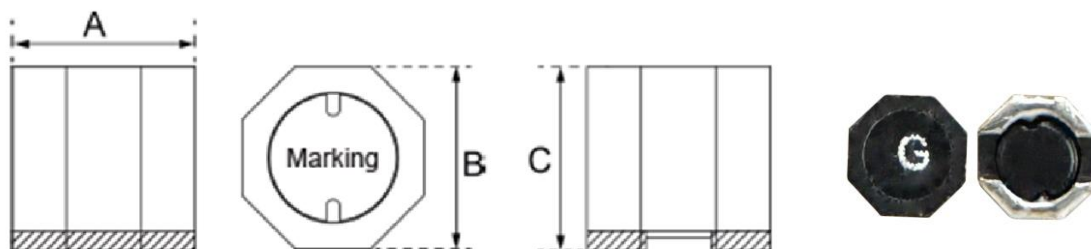


PART NUMBERING SYSTEM

SDS	3030S	—	220M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

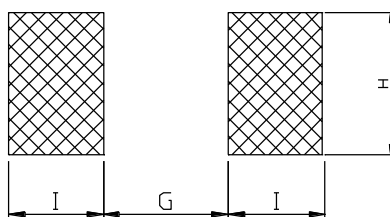
UNIT : mm



$$A=2.8\pm0.2. \quad B=2.8\pm0.2. \quad C=2.8\pm0.2.$$

RECOMMENDED PATTERNS

UNIT : mm



$$G=1.2 \quad H=3.2 \quad I=1.0$$

FEATURES

- High current capability
- Magnetically shielded which results in a low leakage field
- Recommended solder profile: Reflow
- Operating temperature: -40°C to $+125^{\circ}\text{C}$
- Operating voltage: 50V

APPLICATIONS

- Portable power like PDA, digital camera, PCMCIA cards and displays
- DC/DC converter
- Embedded PC
- Mobile data gathering, telemetric



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	TOLERANCE	DCR (m Ω) (Max.)	Isat (A)	Irms (A) @ 25°C Rise	TEST FREQ. (f)
SDS3030S-R47M-LF	0.47	M	23	4.70	3.30	1KHz/1V
SDS3030S-1R2M-LF	1.20	M	42	3.00	2.60	1KHz/1V
SDS3030S-2R2M-LF	2.20	M	66	2.40	1.80	1KHz/1V
SDS3030S-3R3M-LF	3.30	M	101	1.80	1.50	1KHz/1V
SDS3030S-4R7M-LF	4.70	M	120	1.70	1.35	1KHz/1V
SDS3030S-6R8M-LF	6.80	M	165	1.30	1.10	1KHz/1V
SDS3030S-100M-LF	10.0	M	190	1.10	1.00	1KHz/1V
SDS3030S-150M-LF	15.0	M	400	0.90	0.72	1KHz/1V
SDS3030S-220M-LF	22.0	M	575	0.75	0.50	1KHz/1V
SDS3030S-270M-LF	27.0	M	796	0.67	0.45	1KHz/1V
SDS3030S-330M-LF	33.0	M	960	0.62	0.40	1KHz/1V

- Inductors tolerance M=±20%
- Inductance tested at 100KHz, 1mA 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 550pcs with 7' reel (178mm)