



SD54S SERIES ~ Semi-Shielded Power Inductors



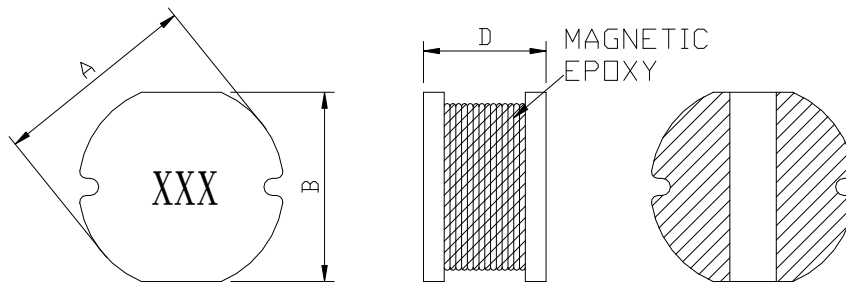
PART NUMBERING SYSTEM

(AEC-Q200)

SDR	54S	—	220M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

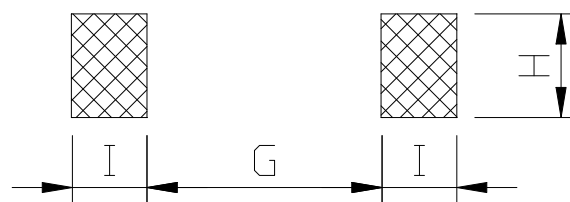
SHAPES AND DIMENSIONS

UNIT : mm



$A=5.8\pm0.3$ $B=5.2\pm0.3$ $D=4.5\pm0.35$

PCB PATTERN



$G=3.5$ Ref . $H=8.0$ Ref . $I=2.2$ Ref.

FEATURES

- Semi-Shielded Construction
- Inductance value range from 1.0uH to 100uH .
- Component height 4.5mm
- Isat current up to 8.5A
- RoHS-compliant. 260°C compatible and Halogen free

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SPECIFICATION TABLE

(AEC-Q200)

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)
SDR54S-1R0N-LF	1.0 \pm 30%	13.9	8.5	4.2
SDR54S-1R3N-LF	1.3 \pm 30%	17.0	8.0	4.0
SDR54S-1R5N-LF	1.5 \pm 30%	18.1	7.6	3.8
SDR54S-1R8N-LF	1.8 \pm 30%	19.8	7.0	3.7
SDR54S-2R2N-LF	2.2 \pm 30%	25.1	6.0	3.5
SDR54S-3R3N-LF	3.3 \pm 30%	30.2	5.0	3.2
SDR54S-4R7N-LF	4.7 \pm 30%	37.6	4.0	3.0
SDR54S-6R8N-LF	6.8 \pm 30%	47.3	3.8	2.8
SDR54S-8R2N-LF	8.2 \pm 30%	55.0	3.3	2.7
SDR54S-100M-LF	10 \pm 20%	58.6	3.0	2.5
SDR54S-150M-LF	15 \pm 20%	95.8	2.3	1.9
SDR54S-220M-LF	22 \pm 20%	142	1.9	1.5
SDR54S-330M-LF	33 \pm 20%	188	1.5	1.4
SDR54S-470M-LF	47 \pm 20%	257	1.3	1.1
SDR54S-680M-LF	68 \pm 20%	351	1.0	0.9
SDR54S-101M-LF	100 \pm 20%	494	0.8	0.7

- DC current at which the inductance drops 30% (typ) from its value without current.
- Test Frequency at 100KHz/1V
- Operating temperature range -40°C to +125°C ,
- Electrical specifications at 25°C.
- Packing : 13" reel, machine-ready ,embossed plastic tape (1,500 parts per full reel).