



SDS5014M SERIES ~ **New Products**



RoHS Compliant

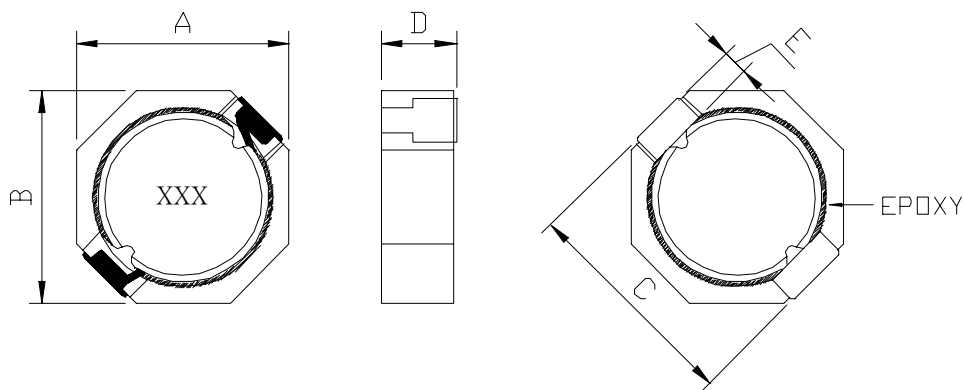
Low Profile Shielded Power Inductors

PART NUMBERING SYSTEM

SDS	5 0 1 4 M	—	1 0 0 M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

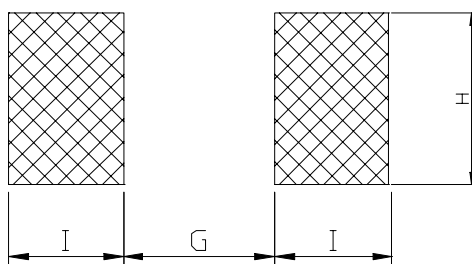
UNIT : mm



A=5.20 max. B=5.20 max. C=5.60 max. D=1.40 max. E=0.60 REF

RECOMMENDED PATTERNS

UNIT : mm



G= 3.20 H= 2.00 I = 1.50

FEATURES

- Low profile (1.40mm max. height) and 5.2mm max. square.
- Magnetically shielded and High Current with low DC resistance .
- Suitable as inductors for Cellular phone .
- Ideal for a variety of DC-DC converter inductor .
- Most suitable for portable electronic equipment requiring low profile and high density mounting .



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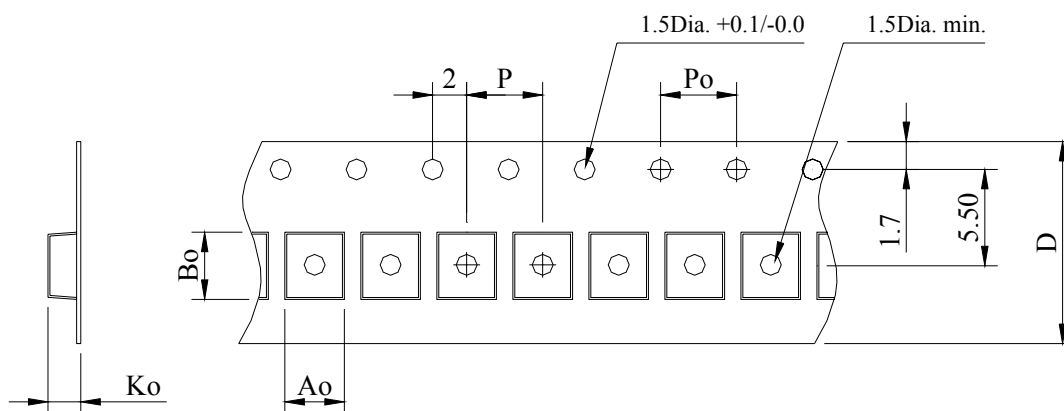
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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (Ω) (Max.)	Isat (A) (Max.)	I _{rms} (A) (Max.)	TEST FREQ. (f)
SDS5014M-4R7M-LF	4.7 \pm 30%	0.13	1.70	1.10	100KHz
SDS5014M-6R8M-LF	6.8 \pm 30%	0.19	1.40	0.99	100KHz
SDS5014M-100M-LF	10 \pm 20%	0.22	1.10	0.92	100KHz
SDS5014M-150M-LF	15 \pm 20%	0.32	0.97	0.80	100KHz

- Isat : DC current at which the inductance drops 30%(typ) from its value without current.
- I_{rms} : Average current for 40°C temperature rise from 20°C ambient.
- Operating temperature range -40°C to +105°C
- Electrical specifications at 20°C .

PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		A_o	B_o	K_o	P	P_o	$D\pm 0.3$
13"	2,000	5.72	5.72	1.60	8.00	4.00	12.0



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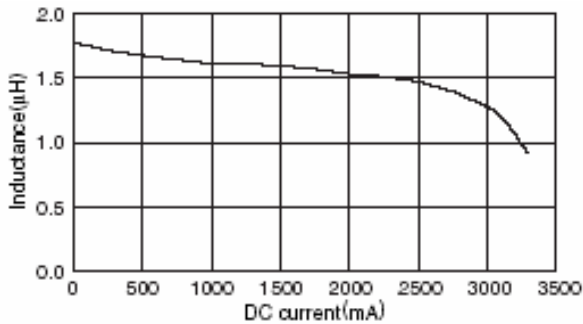


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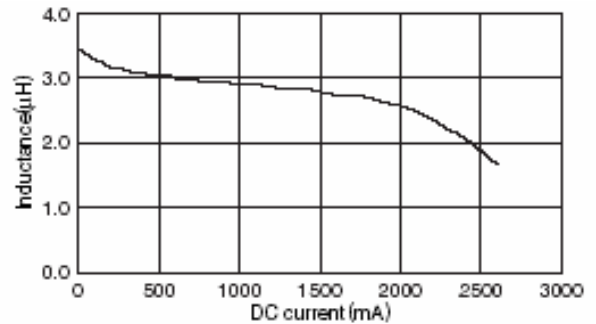
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TYPICAL INDUCTANCE VS. CURRENT

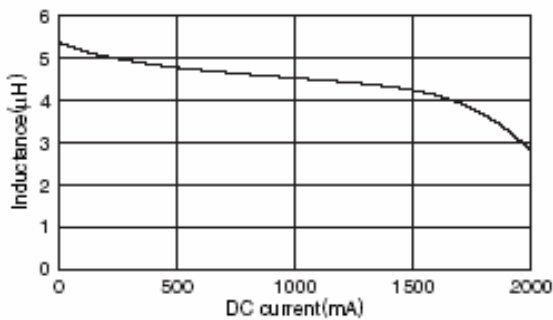
SDS5014M-1R5M-LF



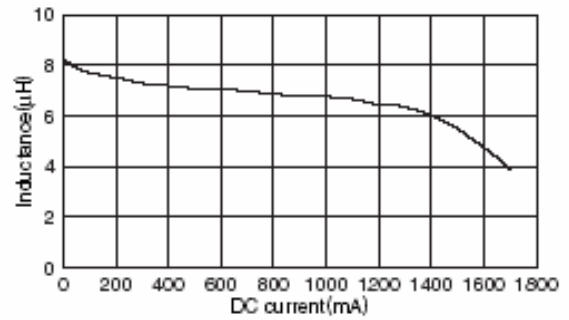
SDS5014M-2R7M-LF



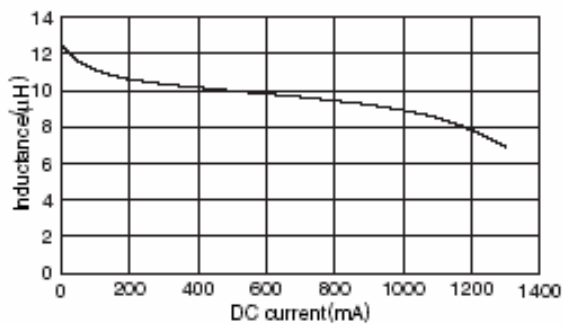
SDS5014M-4R7M-LF



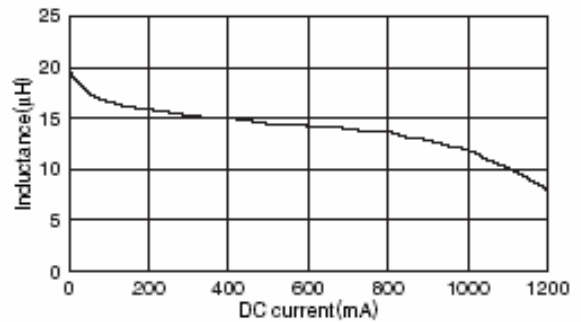
SDS5014M-6R8M-LF



SDS5014M-100M-LF



SDS5014M-150M-LF





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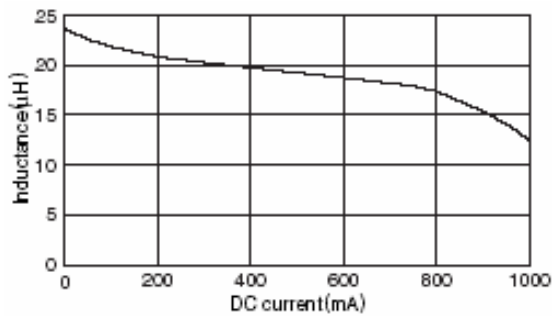


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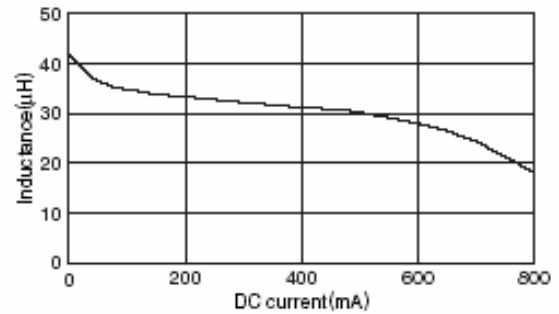
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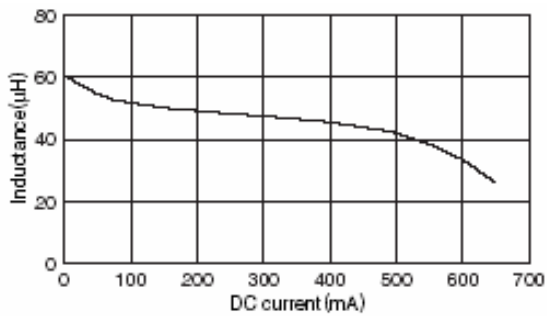
SDS5014M-220M-LF



SDS5014M-330M-LF



SDS5014M-470M-LF



SDS5014M-101M-LF

