

SBS10165SERIES ~ Shielded SMD Power Inductors



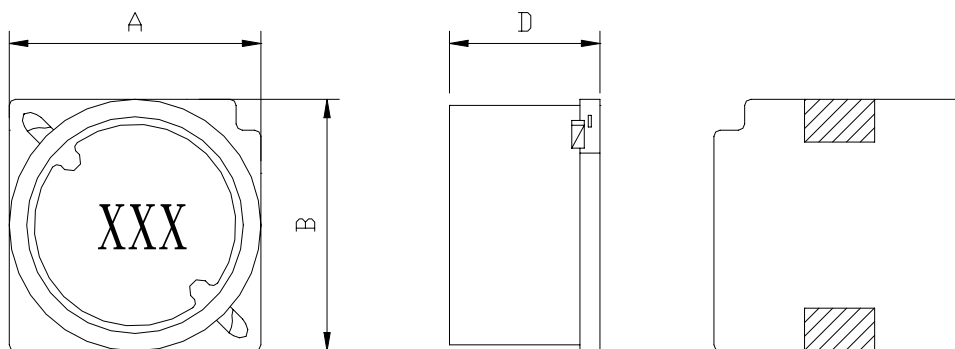
PART NUMBERING SYSTEM

RoHS Compliant

SBS	1 0 1 6 5	—	1 0 0 M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

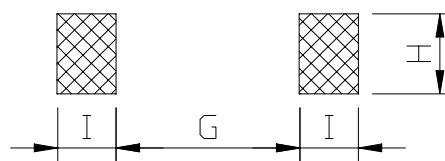
UNIT : mm



A=10.4 Max. B=10.4 Max. D=7.0 Max.

RECOMMENDED PATTERNS

UNIT : mm



G=5.6 H=3.2 I=2.5

FEATURES

- Magnetically shielded construction
- Suitable for large current
- Ideal for a variety of DC-DC converter inductor applications .
- RoHS compliant .

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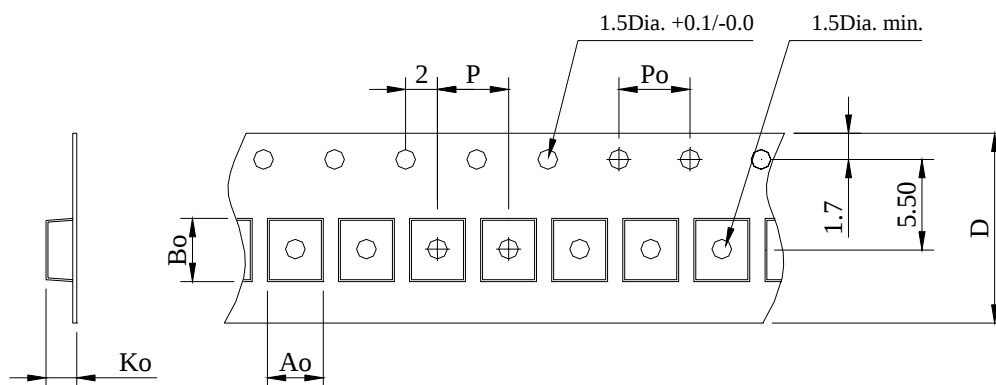
SPECIFICATION TABLE

RoHS Compliant

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)	TEST FREQ. (f)
SBS10165-1R5N-LF	1.5 $\pm$ 30%	8.71	10.7	6.80	100KHz
SBS10165-2R2N-LF	2.2 $\pm$ 30%	10.92	8.90	6.30	100KHz
SBS10165-3R3N-LF	3.3 $\pm$ 30%	12.48	7.80	5.80	100KHz
SBS10165-4R7N-LF	4.7 $\pm$ 30%	15.21	6.10	4.70	100KHz
SBS10165-6R8N-LF	6.8 $\pm$ 30%	18.20	4.60	4.30	100KHz
SBS10165-100M-LF	10 $\pm$ 20%	24.05	4.10	3.80	100KHz
SBS10165-150M-LF	15 $\pm$ 20%	35.10	3.10	3.10	100KHz
SBS10165-220M-LF	22 $\pm$ 20%	58.24	2.70	2.40	100KHz

- Isat : DC current at which the inductance drops 10% (typ) from its value without current.
- Irms: The actual current when temperature of coil becomes $\Delta 40^{\circ}\text{C}$. (Ta=+25 $^{\circ}\text{C}$)

PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D $\pm$ 0.3
13"	500	10.70	10.70	5.30	8.00	4.00	12.0