



# SDS0603B SERIES ~ SMD Shielded Power Inductors



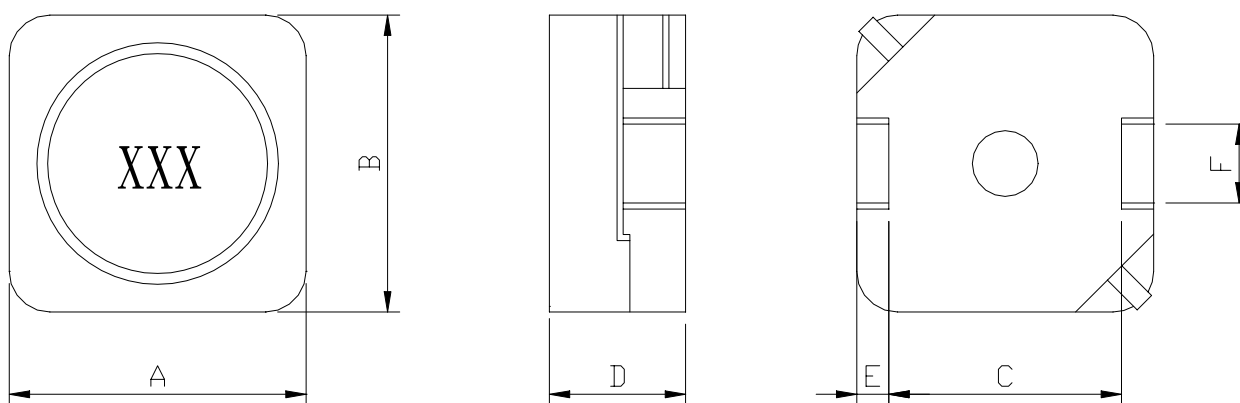
RoHS Compliant

## PART NUMBERING SYSTEM

<b>SDS</b>	<b>0 6 0 3 B</b>	—	<b>1 0 0 M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

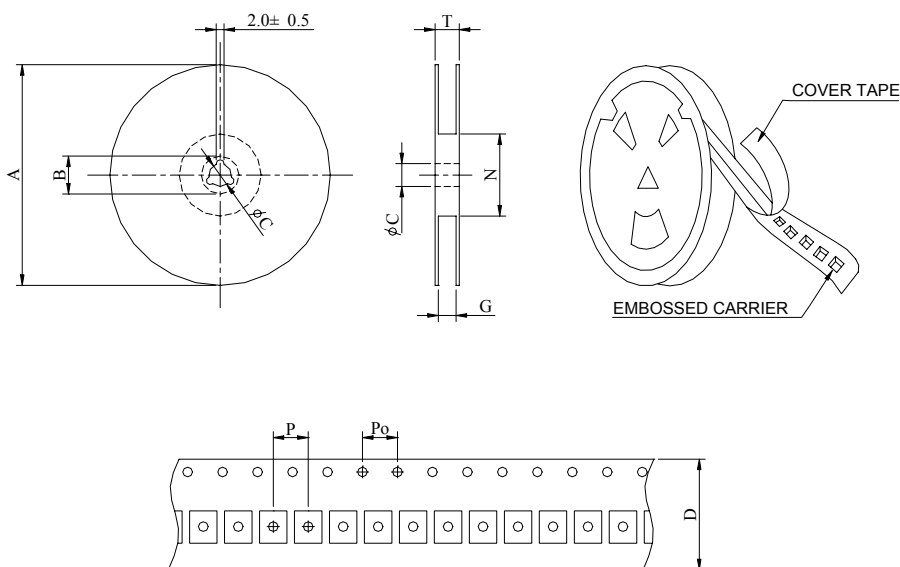
## SHAPES AND DIMENSIONS

UNIT : mm



A=6.8 Max. B=6.8 Max. C=1.6±0.2 , D=3.3 Max. E=0.8±0.3 , F=1.6±0.2

## PACKAGING SPECIFICATION



SERIES	STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G <sup>+0</sup>	N <sup>0</sup>	P	Po	T
SDS0603B	13-16	1000	330	21	13	16	18	50	8	4	22.4



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) (max)	Isat (A) (max)	Irms (A) (max)	SRF (MHz) ( Min. )
SDS0603B-1R5M-LF	1.5 $\pm$ 20%	32.0	3.50	2.20	95
SDS0603B-2R5M-LF	2.5 $\pm$ 20%	40.0	2.95	2.00	90
SDS0603B-3R3M-LF	3.3 $\pm$ 20%	55.0	2.60	1.80	85
SDS0603B-4R7M-LF	4.7 $\pm$ 20%	70.0	2.20	1.60	45
SDS0603B-6R8M-LF	6.8 $\pm$ 20%	100	1.75	1.20	32
SDS0603B-100M-LF	10 $\pm$ 20%	120	1.50	1.10	25
SDS0603B-150M-LF	15 $\pm$ 20%	180	1.20	0.90	25
SDS0603B-220M-LF	22 $\pm$ 20%	270	1.05	0.70	20
SDS0603B-330M-LF	33 $\pm$ 20%	430	0.83	0.60	16
SDS0603B-470M-LF	47 $\pm$ 20%	550	0.73	0.50	13
SDS0603B-680M-LF	68 $\pm$ 20%	900	0.53	0.40	10
SDS0603B-101M-LF	100 $\pm$ 20%	1500	0.44	0.30	9.0
SDS0603B-151M-LF	150 $\pm$ 20%	1900	0.39	0.25	8.0
SDS0603B-221M-LF	220 $\pm$ 20%	2700	0.31	0.20	5.0
SDS0603B-331M-LF	330 $\pm$ 20%	4200	0.24	1.80	4.5
SDS0603B-471M-LF	470 $\pm$ 20%	6700	0.19	1.50	4.0
SDS0603B-681M-LF	680 $\pm$ 20%	10500	0.15	1.20	3.5
SDS0603B-102M-LF	1000 $\pm$ 20%	14000	0.13	1.00	3.0

\* Inductance measured at 1 kHz, 0.1 Vrms using an Agilent/HP 4284A or equivalent .

\* Isat : DC current at which the inductance drops 10% max from its value without current.

\* Irms : Temperature rise 40°C Max. at Irms .

\* Operating temperature range -40°C to +125°C .

\* Electrical specifications at 25°C.