



## Shielded SMD Power Inductors - SDS125B SERIES



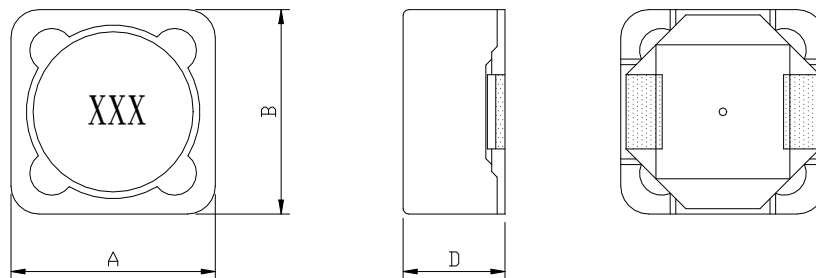
### PART NUMBERING SYSTEM

(AEC-Q200)

<b>SDS</b>	<b>125B</b>	—	<b>470M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

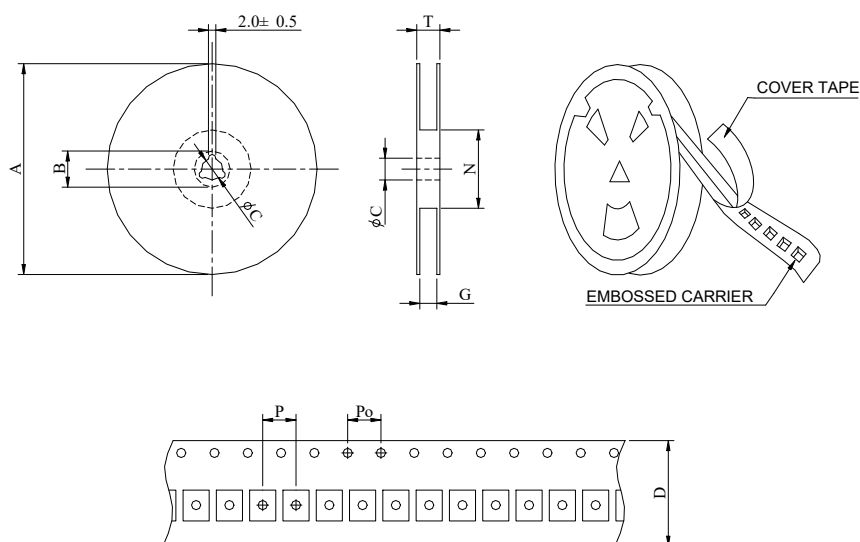
### SHAPES AND DIMENSIONS

UNIT : mm



A=12.5 Max. B=12.5 Max. D=6.50Max.

### 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
SDS125B	13-24	400	330	21	13	24	26	50	16	4	30.4



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### SPECIFICATION TABLE

(AEC-Q200)

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (Max.)	Isat (A) (Max.)	I <sub>rms</sub> (A) (Max.)	TEST FREQ. ( freq. )
SDS125B-2R5M-LF	2.5 $\pm$ 20%	0.016	10.0	6.20	7.96MHz
SDS125B-5R0M-LF	5.0 $\pm$ 20%	0.022	8.30	4.70	7.96MHz
SDS125B-7R5M-LF	7.5 $\pm$ 20%	0.025	6.90	3.80	7.96MHz
SDS125B-100M-LF	10 $\pm$ 20%	0.035	5.70	3.30	2.52MHz
SDS125B-120M-LF	12 $\pm$ 20%	0.038	5.50	3.00	2.52MHz
SDS125B-150M-LF	15 $\pm$ 20%	0.042	5.10	2.80	2.52MHz
SDS125B-180M-LF	18 $\pm$ 20%	0.050	4.70	2.50	2.52MHz
SDS125B-220M-LF	22 $\pm$ 20%	0.062	3.80	2.30	2.52MHz
SDS125B-270M-LF	27 $\pm$ 20%	0.068	3.70	2.00	2.52MHz
SDS125B-330M-LF	33 $\pm$ 20%	0.090	3.10	1.90	2.52MHz
SDS125B-390M-LF	39 $\pm$ 20%	0.100	3.00	1.75	2.52MHz
SDS125B-470M-LF	47 $\pm$ 20%	0.130	2.50	1.60	2.52MHz
SDS125B-560M-LF	56 $\pm$ 20%	0.155	2.50	1.45	2.52MHz
SDS125B-680M-LF	68 $\pm$ 20%	0.170	2.20	1.30	2.52MHz
SDS125B-820M-LF	82 $\pm$ 20%	0.185	2.10	1.20	2.52MHz
SDS125B-101M-LF	100 $\pm$ 20%	0.22	1.90	1.10	0.796MHz
SDS125B-121M-LF	120 $\pm$ 20%	0.26	1.80	1.00	0.796MHz
SDS125B-151M-LF	150 $\pm$ 20%	0.32	1.60	0.90	0.796MHz
SDS125B-181M-LF	180 $\pm$ 20%	0.33	1.30	0.80	0.796MHz
SDS125B-221M-LF	220 $\pm$ 20%	0.46	1.20	0.70	0.796MHz
SDS125B-271M-LF	270 $\pm$ 20%	0.52	1.10	0.65	0.796MHz
SDS125B-331M-LF	330 $\pm$ 20%	0.66	1.00	0.60	0.796MHz
SDS125B-391M-LF	390 $\pm$ 20%	0.87	0.95	0.55	0.796MHz
SDS125B-471M-LF	470 $\pm$ 20%	0.97	0.83	0.50	0.796MHz
SDS125B-561M-LF	560 $\pm$ 20%	1.32	0.80	0.45	0.796MHz
SDS125B-681M-LF	680 $\pm$ 20%	1.50	0.70	0.40	0.796MHz
SDS125B-821M-LF	820 $\pm$ 20%	1.70	0.65	0.35	0.796MHz
SDS125B-102M-LF	1000 $\pm$ 20%	2.30	0.54	0.30	0.252MHz
SDS125B-122K-LF	1200 $\pm$ 20%	2.65	0.51	0.25	0.252MHz
SDS125B-152K-LF	1500 $\pm$ 20%	3.50	0.42	0.20	0.252MHz

- Isat : DC current at which the inductance drops 10%(typ) from its value without current.
- I<sub>rms</sub> : Average current for 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +125°C .
- Electrical specifications at 25°C .