



SDS5022 SERIES ~ SMD Shielded Power Inductors

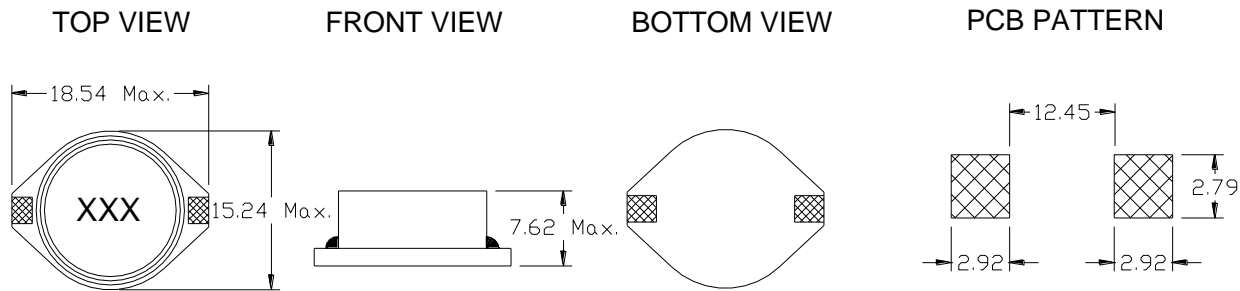


PART NUMBERING SYSTEM

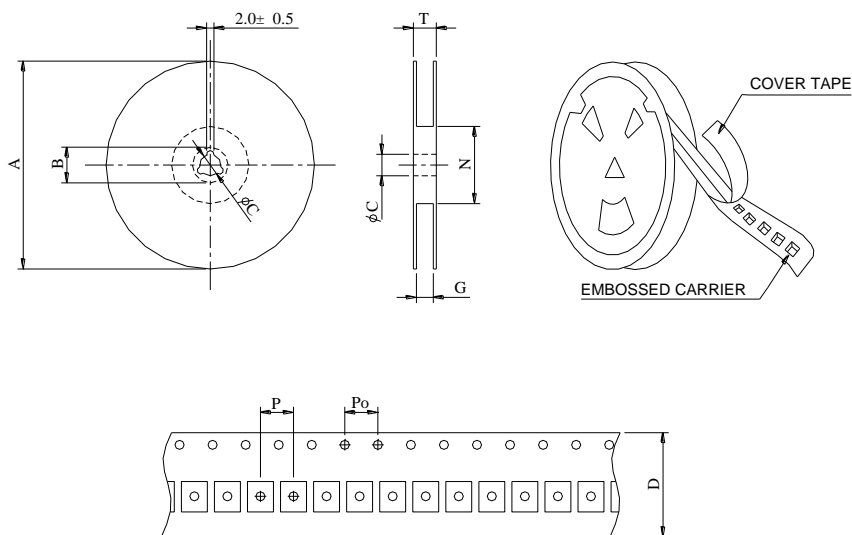
SDS	5022	—	101M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

UNIT : mm



PACKAGING SPECIFICATION



SERIES	STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)								
			A	B	C±0.5	D	G ⁺⁰	N±2.0	P±0.1	Po	T
SDS5022	13-32	250	330	—	13.5	32	34	75	20	4	—

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)	SRF(MHz) (Ref.)
SDS5022-1R0M-LF	1.0 \pm 20%	0.016	18.0	6.5	130
SDS5022-2R2M-LF	1.5 \pm 20%	0.023	14.0	5.0	70
SDS5022-3R3M-LF	2.2 \pm 20%	0.026	12.5	4.7	60
SDS5022-4R7M-LF	3.3 \pm 20%	0.028	11.5	4.4	40
SDS5022-5R6M-LF	4.7 \pm 20%	0.030	10.8	4.1	33
SDS5022-100M-LF	10 \pm 20%	0.040	8.0	3.9	30
SDS5022-150M-LF	15 \pm 20%	0.048	7.0	3.4	20
SDS5022-220M-LF	22 \pm 20%	0.059	6.0	3.1	18
SDS5022-330M-LF	33 \pm 20%	0.075	5.0	2.8	14
SDS5022-470M-LF	47 \pm 20%	0.097	4.0	2.4	10
SDS5022-680M-LF	68 \pm 20%	0.138	3.0	2.0	9.0
SDS5022-101M-LF	100 \pm 20%	0.207	2.4	1.7	7.0
SDS5022-151M-LF	150 \pm 20%	0.293	2.1	1.3	6.0
SDS5022-221M-LF	220 \pm 20%	0.47	1.9	1.1	5.0
SDS5022-271M-LF	270 \pm 20%	0.64	1.4	0.95	4.5
SDS5022-331M-LF	330 \pm 20%	0.78	1.1	0.86	4.0
SDS5022-471M-LF	470 \pm 20%	1.08	1.1	0.73	3.0
SDS5022-681M-LF	680 \pm 20%	1.40	0.96	0.64	2.5
SDS5022-821M-LF	820 \pm 20%	1.70	0.88	0.58	2.2
SDS5022-102M-LF	1000 \pm 20%	2.01	0.80	0.53	2.0

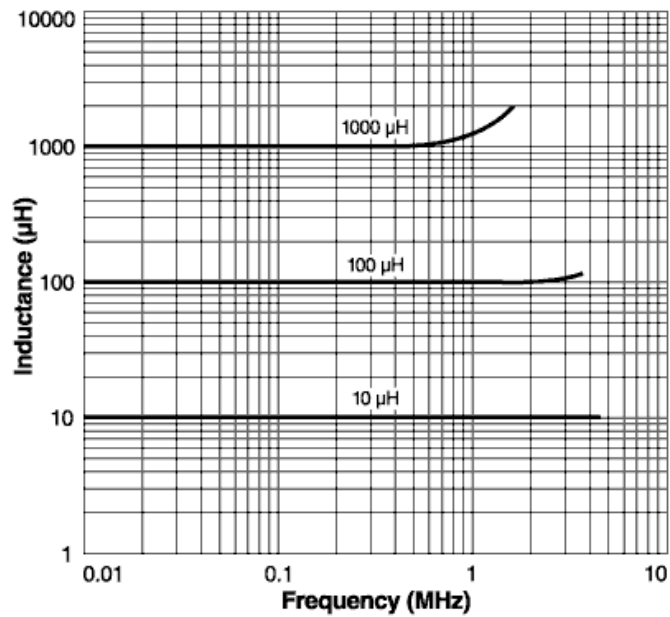
- Inductance tested at 100 kHz, 0.1 Vrms.
- Isat : DC current at which the inductance drops 10% (typ) from its value without current.
- I rms : : Average current for 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C .
- Packing : 13" reel, machine-ready ,embossed plastic tape (250 parts per full reel).



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TYPICAL INDUCTANCE VS. FREQUENCY



TYPICAL INDUCTANCE VS. CURRENT

