BADGER GLOBAL COMPONENTS
1510 Sylvania Ave #211 Sturtevant, WI 53177
262-884-9087 Fax 262-884-9082

SDS5022 SERIES ~ SMD Shielded Power Inductors

RoHS Compliant

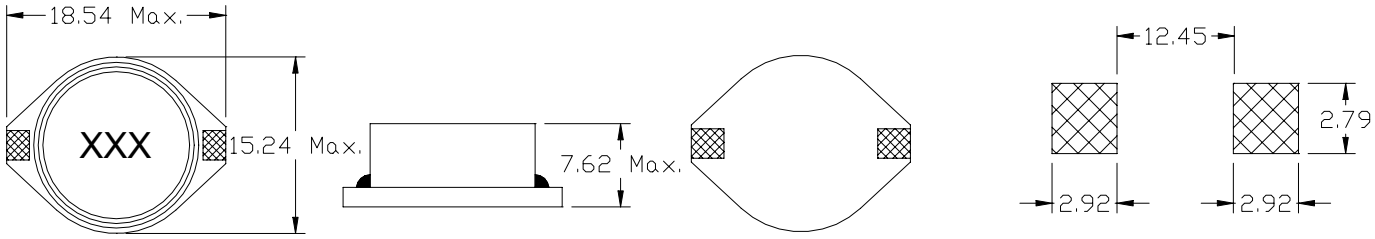
PART NUMBERING SYSTEM

SDS	5022	—	1R0M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

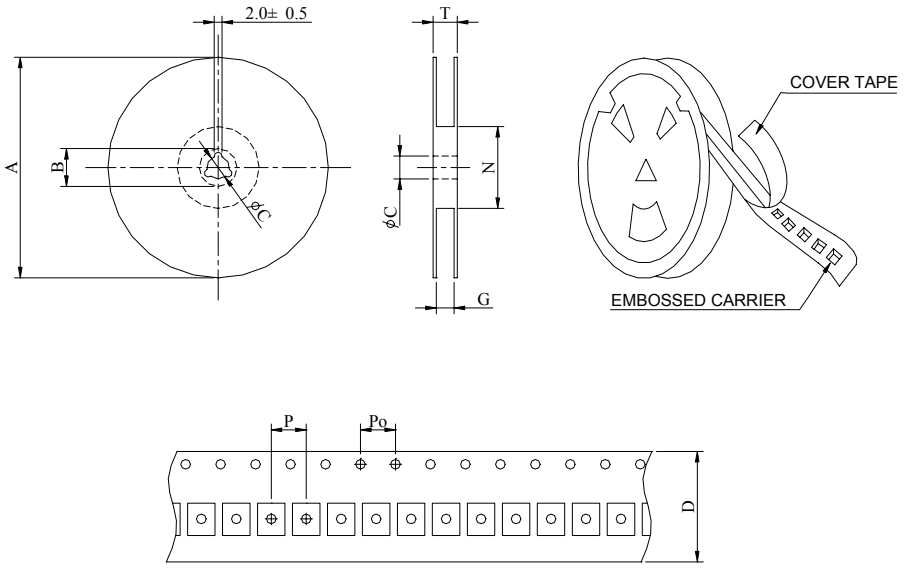
SHAPES AND DIMENSIONS

UNIT : mm

TOP VIEW FRONT VIEW BOTTOM VIEW PCB PATTERN



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

- Inductance tested at 100 kHz, 0.1 Vrms.
- I sat : 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℃ to +85℃ , Electrical specifications at 25℃ .
- Packing : 13" reel, machine-ready ,embossed plastic tape (250 parts per full reel).

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SDS5022 SERIES –Shielded SMD Power Inductors

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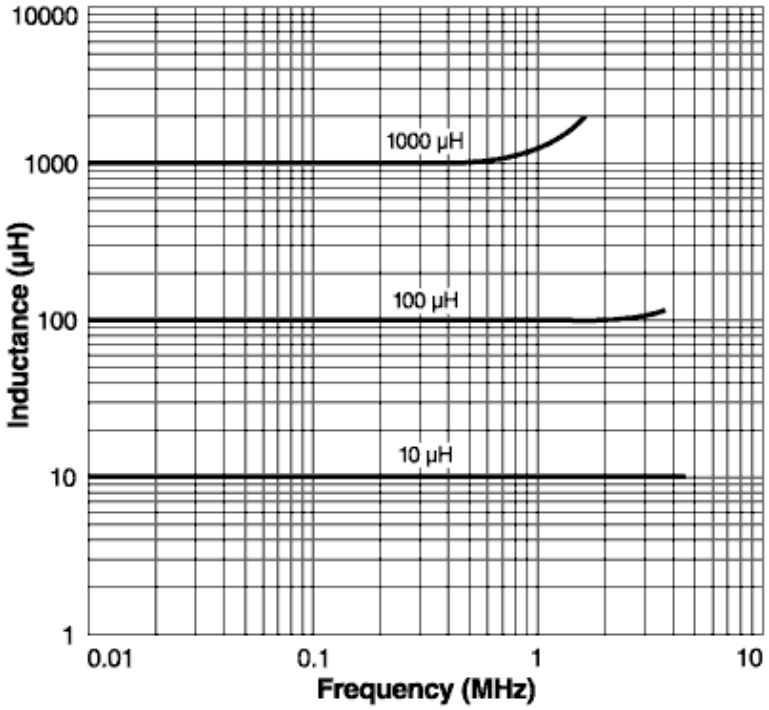
TYPICAL INDUCTANCE VS. FREQUENCY



TYPICAL INDUCTANCE VS. CURRENT