

SDS5225Q SERIES ~

SMD Shielded Coupled Inductors



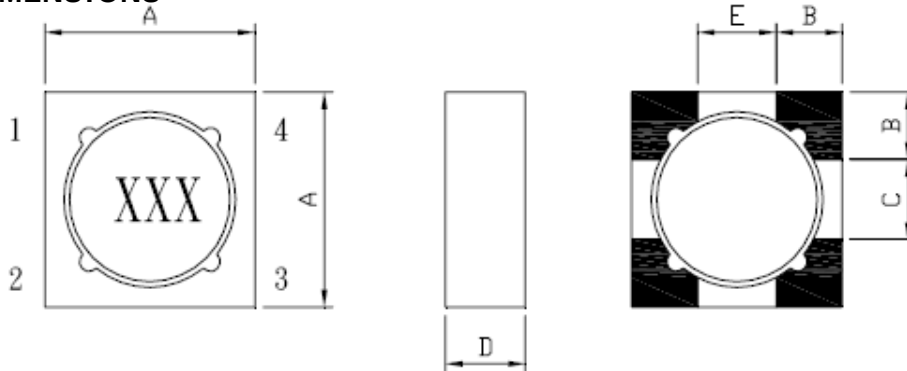
RoHS Compliant

PART NUMBERING SYSTEM

<u>SDS</u>	<u>5225Q</u>	—	<u>680M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

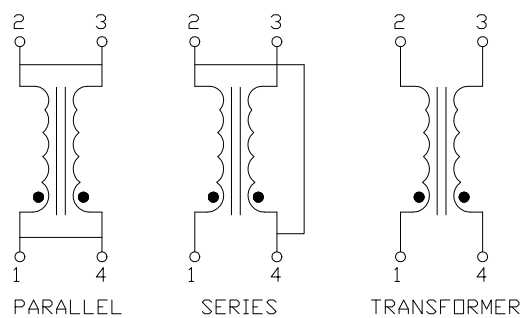
SHAPES AND DIMENSIONS

UNIT : mm



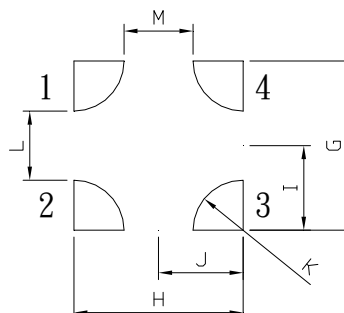
A=5.2 Max. B=1.5 Typ. C=2.0 Typ. D=2.5 Max. E=2.0 Typ.

SCHEMATIC DRAWING



RECOMMENDED PATTERNS

UNIT : mm



G=5.95 H=5.95 I=2.975 J=2.975 K=2.25 L=1.45 M=1.45

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SPECIFICATION TABLE

TYPE		Parallel Ratings				Series ratings			
PART NUMBER	INDUCTANCE (μH)	OCL±20% (μH)	I rms (A)	I sat (A)	DCR (Ω) (Max.)	OCL±25% (μH)	I rms (A)	I sat (A)	DCR (Ω) (Max.)
SDS5225Q-R47M-LF	0.47	0.392	3.71	6.43	0.0226	1.57	1.86	3.21	0.0906
SDS5225Q-R82M-LF	0.82	0.648	3.37	5.00	0.0276	2.59	1.68	2.50	0.1104
SDS5225Q-1R0M-LF	1.0	0.97	3.15	4.09	0.0315	3.87	1.58	2.05	0.1259
SDS5225Q-1R5M-LF	1.5	1.35	2.97	3.46	0.0354	5.41	1.49	1.73	0.1413
SDS5225Q-2R2M-LF	2.2	2.31	2.67	2.65	0.0439	9.25	1.34	1.32	0.1753
SDS5225Q-3R3M-LF	3.3	2.89	2.50	2.37	0.0499	11.55	1.25	1.18	0.1994
SDS5225Q-4R7M-LF	4.7	5.00	1.96	1.80	0.0816	20.00	0.98	0.900	0.3265
SDS5225Q-6R8M-LF	6.8	6.73	1.84	1.55	0.0926	26.91	0.918	0.776	0.3705
SDS5225Q-8R2M-LF	8.2	8.71	1.57	1.36	0.1269	34.85	0.785	0.682	0.5074
SDS5225Q-100M-LF	10	9.80	1.53	1.29	0.1335	39.20	0.765	0.643	0.5341
SDS5225Q-150M-LF	15	14.79	1.24	1.05	0.2040	59.17	0.619	0.523	0.8158
SDS5225Q-220M-LF	22	22.47	1.01	0.849	0.3039	89.89	0.507	0.425	1.2155
SDS5225Q-330M-LF	33	33.80	0.812	0.692	0.4744	135.2	0.406	0.346	1.9000
SDS5225Q-470M-LF	47	47.43	0.749	0.584	0.5576	189.7	0.374	0.292	2.225
SDS5225Q-680M-LF	68	69.19	0.603	0.484	0.8581	276.8	0.302	0.242	3.438
SDS5225Q-820M-LF	82	81.61	0.580	0.446	0.9294	326.4	0.290	0.223	3.713
SDS5225Q-101M-LF	100	98.57	0.499	0.405	1.250	394.3	0.249	0.203	5.025
SDS5225Q-151M-LF	150	150.2	0.408	0.328	1.875	600.6	0.204	0.164	7.500
SDS5225Q-221M-LF	220	223.1	0.326	0.269	2.950	892.4	0.163	0.135	11.775
SDS5225Q-331M-LF	330	329.7	0.292	0.222	3.663	1318.7	0.146	0.111	14.638
SDS5225Q-471M-LF	470	472.4	0.243	0.185	5.313	1889.6	0.121	0.093	21.238
SDS5225Q-681M-LF	680	677.4	0.197	0.155	8.063	2709.8	0.098	0.077	32.225
SDS5225Q-821M-LF	820	824.3	0.186	0.140	9.063	3297.3	0.093	0.070	36.238
SDS5225Q-102M-LF	1000	1008.2	0.160	0.127	12.275	4032.8	0.080	0.063	49.075

- Isat : DC current at which the inductance drops 30% (typ) from its value without current.
- Operating temperature range -40°C to +125°C .
- Electrical specifications at 25°C .

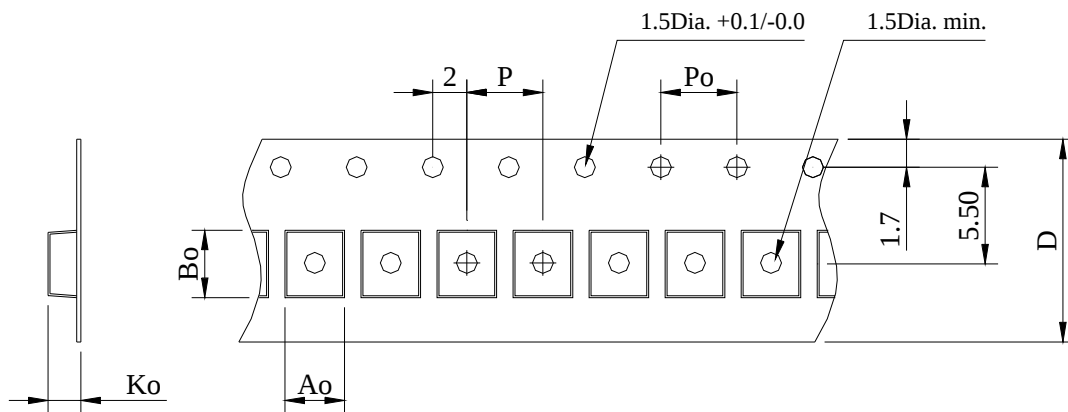
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PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D±0.3
13"	2,000	5.45	5.45	2.70	8.00	4.00	12.0