

SDT1608X SERIES ~ Shielded SMD Power Inductors



PART NUMBERING SYSTEM

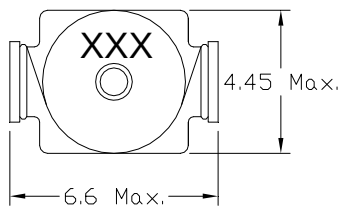
RoHS Compliant

SDT	1608X	—	221M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

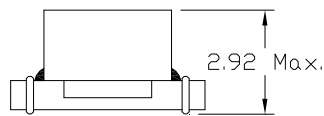
SHAPES AND DIMENSIONS

UNIT : mm

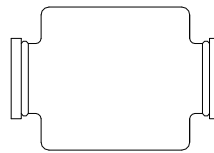
TOP VIEW



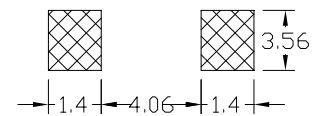
FRONT VIEW



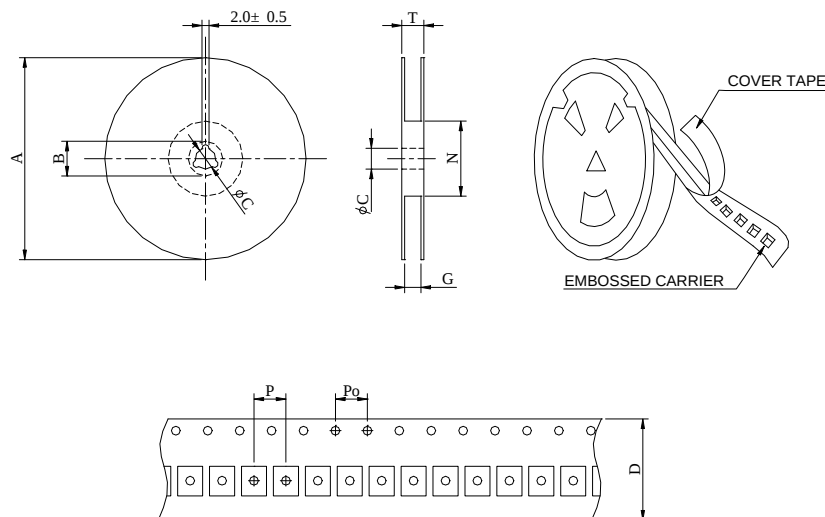
BOTTOM VIEW



PCB PATTERN



PACKAGING SPECIFICATION



SERIES	STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺⁰	N ⁻⁰	P	Po	T
SDT1608X	13-16	2000	330	21	13	16	18	50	8	4	22.4

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	INDUCTANCE Rating (μ H)	DCR (Ω) (Max.)	IDC (A)	Switching Freq. Max. (f)
SDT1608X-1R0M-LF	1.0 $\pm$ 20%	0.6	0.045	2.0	1MHHZ
SDT1608X-1R5M-LF	1.5 $\pm$ 20%	0.8	0.050	1.9	1MHHZ
SDT1608X-2R2M-LF	2.2 $\pm$ 20%	0.9	0.065	1.5	1MHHZ
SDT1608X-3R3M-LF	3.3 $\pm$ 20%	1.5	0.070	1.2	1MHHZ
SDT1608X-4R7M-LF	4.7 $\pm$ 20%	2.0	0.080	1.2	1MHHZ
SDT1608X-6R8M-LF	6.8 $\pm$ 20%	3.0	0.085	1.0	1MHHZ
SDT1608X-100M-LF	10 $\pm$ 20%	5.0	0.095	0.7	1MHHZ
SDT1608X-150M-LF	15 $\pm$ 20%	6.0	0.135	0.6	1MHHZ
SDT1608X-220M-LF	22 $\pm$ 20%	10	0.160	0.5	1MHHZ
SDT1608X-330M-LF	33 $\pm$ 20%	12	0.275	0.45	1MHHZ
SDT1608X-470M-LF	47 $\pm$ 20%	20	0.300	0.34	1MHHZ
SDT1608X-680M-LF	68 $\pm$ 20%	30	0.575	0.29	1MHHZ
SDT1608X-101M-LF	100 $\pm$ 20%	40	1.100	0.24	1MHHZ
SDT1608X-151M-LF	150 $\pm$ 20%	60	1.400	0.20	500KHz
SDT1608X-221M-LF	220 $\pm$ 20%	90	2.250	0.17	500KHz
SDT1608X-331M-LF	330 $\pm$ 20%	100	2.900	0.16	500KHz
SDT1608X-471M-LF	470 $\pm$ 20%	150	3.600	0.14	500KHz
SDT1608X-681M-LF	680 $\pm$ 20%	200	4.550	0.12	500KHz
SDT1608X-102M-LF	1000 $\pm$ 20%	400	8.100	0.08	500KHz

- Inductance tested at 100 kHz, 0.1 Vrms.
- Average maximum allowable current. SDT1608 are designed for current spikes as high as twice the current rating.
- Operating temperature range -40°C to +125°C, Electrical specifications at 25°C.