Electrical Characteristics

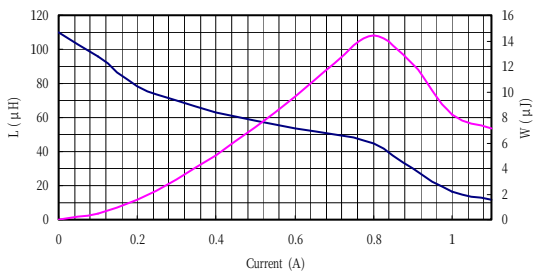
Specifications				Operating Parameters				
Part Number	Inductance① (μH)	Tolerance (±%)	DC Resistance (Ω) Max	Self Resonant Frequency (MHz) Typ	Inductance Rating② (μH)	Current Raging③ (A)	Energy Storage (μ Joules) Max	Switching Frequency Max
SDT0804T-1R0M-N	1.0	20	0.025	60	0.50	5.0	9	1 MHz
SDT0804T-1R5M-N	1.5	20	0.030	55	0.70	5.0	12	1 MHz
SDT0804T-2R2M-N	2.2	20	0.035	55	1.00	5.0	15	1 MHz
SDT0804T-3R3M-N	3.3	20	0.040	50	1.50	5.0	16	1 MHz
SDT0804T-4R7M-N	4.7	20	0.045	45	2.00	3.0	10	1 MHz
SDT0804T-6R8M-N	6.8	20	0.050	40	4.00	2.5	14	1 MHz
SDT0804T-100M-N	10	20	0.055	35	5.00	2.0	11	1 MHz
SDT0804T-150M-N	15	20	0.060	25	6.00	1.8	12	1 MHz
SDT0804T-220M-N	22	20	0.084	22	10	1.5	11	1 MHz
SDT0804T-330M-N	33	20	0.090	18	12	1.3	13	1 MHz
SDT0804T-470M-N	47	20	0.11	16	27	1.0	13	1 MHz
SDT0804T-680M-N	68	20	0.15	12	40	0.90	17	1 MHz
SDT0804T-101M-N	100	20	0.29	9	50	0.80	15	1 MHz
SDT0804T-151M-N	150	20	0.36	8	80	0.60	15	500 KHz
SDT0804T-221M-N	220	20	0.39	6	90	0.50	10	500 KHz
SDT0804T-331M-N	330	20	0.73	5	150	0.40	13	500 KHz
SDT0804T-471M-N	470	20	0.88	4	200	0.35	13	500 KHz
SDT0804T-681M-N	680	20	1.15	3	300	0.30	13	500 KHz
SDT0804T-102M-N	1000	20	1.45	2.5	420	0.25	13	500 KHz

1. Inductance tested at 100 KHz,
2. Measured at the rated current. Refer to curves below for more detail.
3. Average maximum allowable current. SDT Series inductors are designed for current spikes as high as 2X the current rating

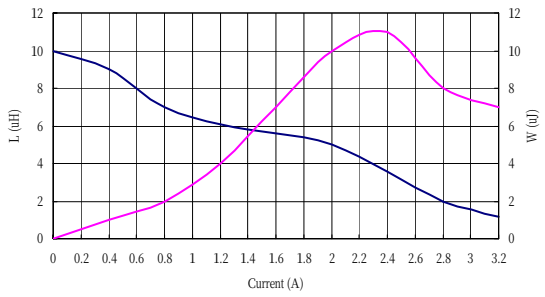
- Tolerance: M = ±20%
- Operating temperature range －40℃ to 85℃

Typical Inductance Energy Storage VS. Current

SDT0804T-1R0M-N



SDT0804T-100M-N



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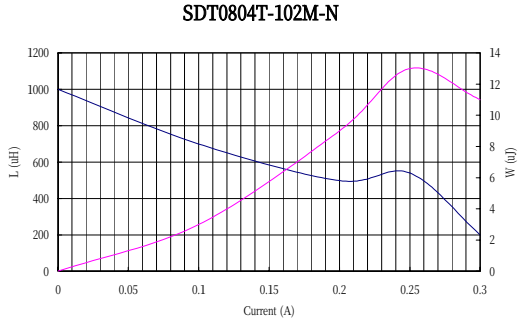

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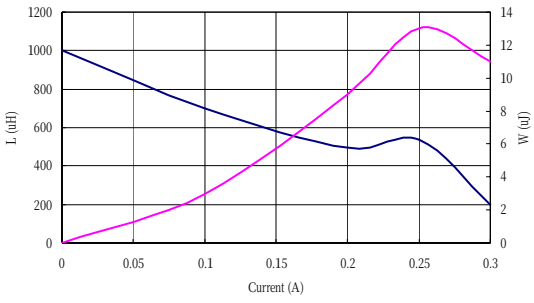

CHILISIN ELECTRONICS CORP.