Electrical Characteristics

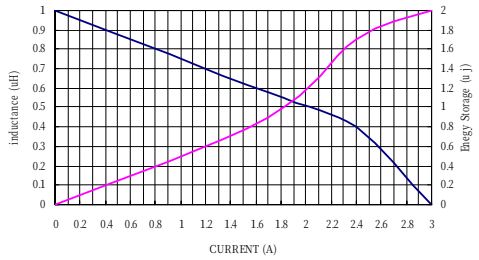
Specifications				Operating Parameters				
Part Number	Inductance① (μH)	Tolerance (±%)	DC Resistance (Ω) Max	Self Resonant Frequency (MHz) Typ	Inductance Rating② (μH)	Current Raging③ (A)	Energy Storage (μ Joules) Max	Switching Frequency Max
SDT0402T-1R0M-N	1.0	20	0.045	157	0.60	2.0	1.8	1 MHz
SDT0402T-1R5M-N	1.5	20	0.050	108	0.80	1.9	1.8	1 MHz
SDT0402T-2R2M-N	2.2	20	0.060	92	0.90	1.5	1.8	1 MHz
SDT0402T-3R3M-N	3.3	20	0.070	69	1.5	1.2	1.4	1 MHz
SDT0402T-4R7M-N	4.7	20	0.080	59	2.0	1.2	1.6	1 MHz
SDT0402T-6R8M-N	6.8	20	0.085	51	3.0	1.0	1.9	1 MHz
SDT0402T-100M-N	10	20	0.095	33	5.0	0.7	1.2	1 MHz
SDT0402T-150M-N	15	20	0.135	26	6.0	0.6	1.1	1 MHz
SDT0402T-220M-N	22	20	0.160	20	10	0.5	1.2	1 MHz
SDT0402T-330M-N	33	20	0.275	17	12	0.45	1.5	1 MHz
SDT0402T-470M-N	47	20	0.340	12	20	0.34	1.3	1 MHz
SDT0402T-680M-N	68	20	0.575	11	30	0.29	1.4	1 MHz
SDT0402T-101M-N	100	20	1.100	9.4	40	0.24	1.5	1 MHz
SDT0402T-151M-N	150	20	1.400	6.7	60	0.20	1.4	500 KHz
SDT0402T-221M-N	220	20	2.250	6.1	90	0.17	1.6	500 KHz
SDT0402T-331M-N	330	20	2.900	4.7	100	0.16	1.4	500 KHz
SDT0402T-471M-N	470	20	3.600	3.85	150	0.14	1.5	500 KHz
SDT0402T-681M-N	680	20	4.550	3.1	200	0.12	1.4	500 KHz
SDT0402T-102M-N	1000	20	8.100	2.3	400	0.08	1.4	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

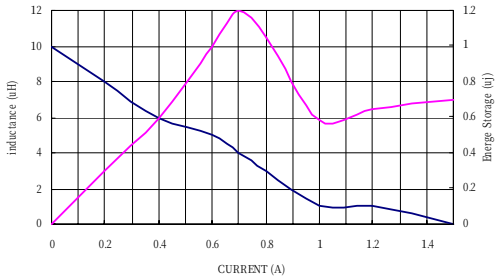
- Tolerance: M = ±20%
- Operating temperature range －40℃ to 85℃

Typical Inductance Energy Storage VS. Current

SDT0402T-1R0M-N



SDT0402T-100M-N



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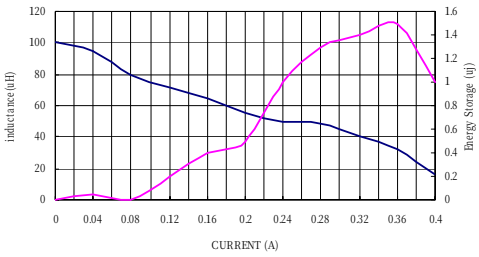

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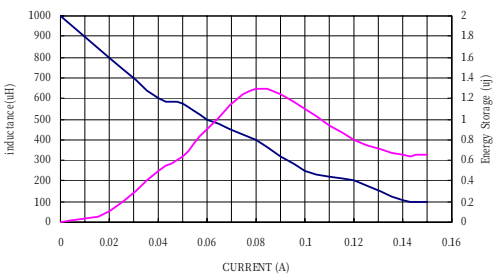

CHILISIN ELECTRONICS CORP.