

BPST Series



Its feature of "swinging" inductance vs. current characteristics, the BPSL00070429 Series supports used as ultra high inductance at zero or low current.

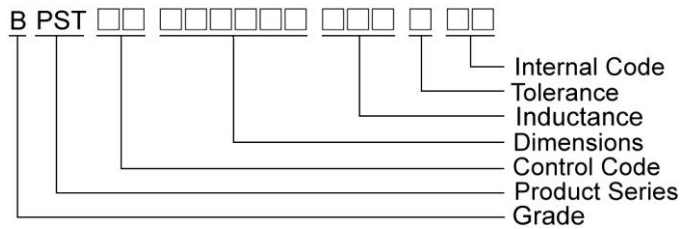
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Functions equally well in filter and smoothing circuit applications

Applications

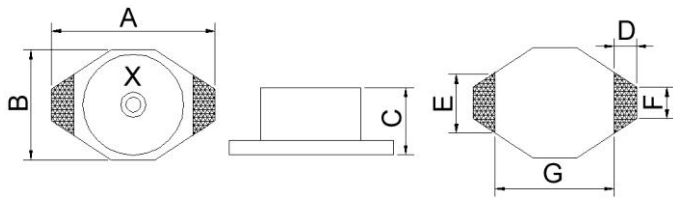
- Electric motors
- DC/DC converters

Product Identification



Shape and Dimensions

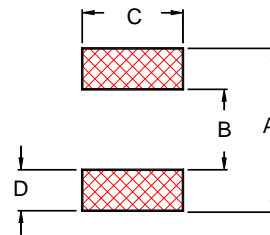
BPST00070429



Dimensions in mm

A	B	C	D	E	F	G
6.60 ⁺⁰	4.45 ⁺⁰	2.92 ⁺⁰	1.02	3.05	1.27	4.32

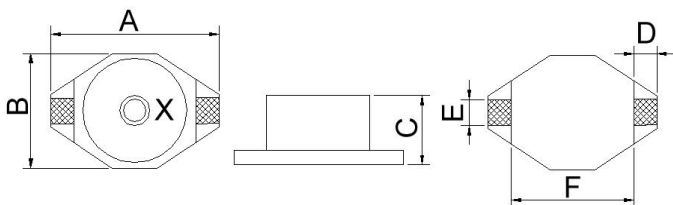
Recommended Pattern



Dimensions in mm

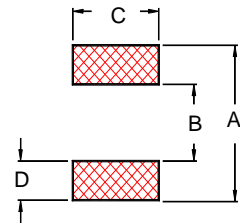
A	B	C	D
6.86	4.06	3.56	1.40

BPST00130951



Dimensions in mm

A	B	C	D	E	F
12.95 ⁺⁰	9.4 ⁺⁰	5.08 ⁺⁰	2.54	2.54	7.62



Dimensions in mm

A	B	C	D
13.21	7.37	2.79	2.92

SMD Shielded Power Inductors – BPST Series

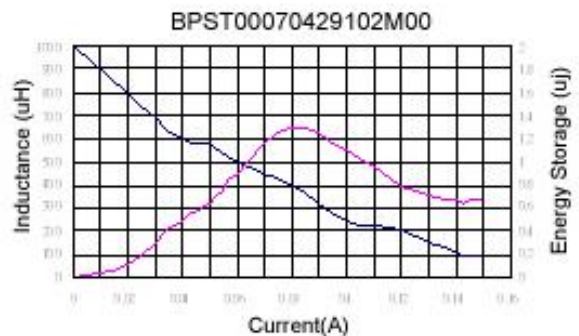
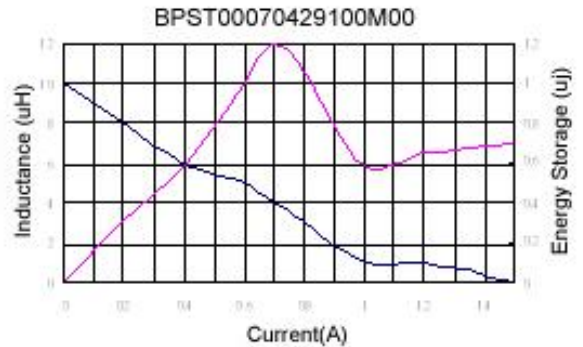
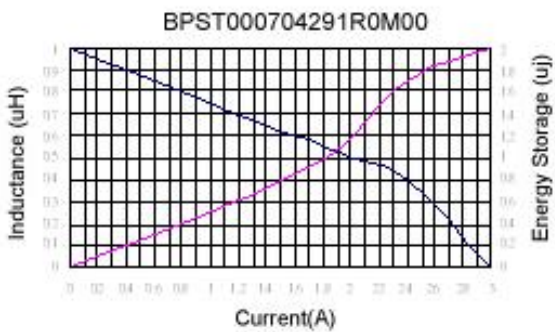
Electrical Characteristics

Specifications				Operating Parameters				
Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (Ω) Max	Self Resonant Frequency (MHz) Typ.	Inductance Rating (μH)	Current Rating (A)	Energy Storage (μ Joules) Max	Switching Frequency Max
BPST000704291R0M00	1.0	20	0.045	157	0.60	2.0	1.8	1 MHz
BPST000704291R5M00	1.5	20	0.050	108	0.80	1.9	1.8	1 MHz
BPST000704292R2M00	2.2	20	0.060	92	0.90	1.5	1.8	1 MHz
BPST000704293R3M00	3.3	20	0.070	69	1.5	1.2	1.4	1 MHz
BPST000704294R7M00	4.7	20	0.080	59	2.0	1.2	1.6	1 MHz
BPST000704296R8M00	6.8	20	0.085	51	3.0	1.0	1.9	1 MHz
BPST00070429100M00	10	20	0.095	33	5.0	0.7	1.2	1 MHz
BPST00070429150M00	15	20	0.135	26	6.0	0.6	1.1	1 MHz
BPST00070429220M00	22	20	0.160	20	10	0.5	1.2	1 MHz
BPST00070429330M00	33	20	0.275	17	12	0.45	1.5	1 MHz
BPST00070429470M00	47	20	0.340	12	20	0.34	1.3	1 MHz
BPST00070429680M00	68	20	0.575	11	30	0.29	1.4	1 MHz
BPST00070429101M00	100	20	1.100	9.4	40	0.24	1.5	1 MHz
BPST00070429151M00	150	20	1.400	6.7	60	0.20	1.4	500 kHz
BPST00070429221M00	220	20	2.250	6.1	90	0.17	1.6	500 kHz
BPST00070429331M00	330	20	2.900	4.7	100	0.16	1.4	500 kHz
BPST00070429471M00	470	20	3.600	3.85	150	0.14	1.5	500 kHz
BPST00070429681M00	680	20	4.550	3.1	200	0.12	1.4	500 kHz
BPST00070429102M00	1000	20	8.100	2.3	400	0.08	1.4	500 kHz

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Measured at the rated current. Refer to curves below for more detail.
- Average maximum allowable current. SDT Series inductors are designed for current spikes as high as 2X the current rating
- Measure Equipment :
 - L : E4980 or HP4284A, 100kHz 0.1V
 - RDC : Chroma 16502
 - SRF : HP4291A or HP4192A
 - Rated Current : HP4284A+HP42841A or WK3260B+WK3265B

Typical Inductance Energy Storage VS. Current



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

SMD Shielded Power Inductors – BPST Series

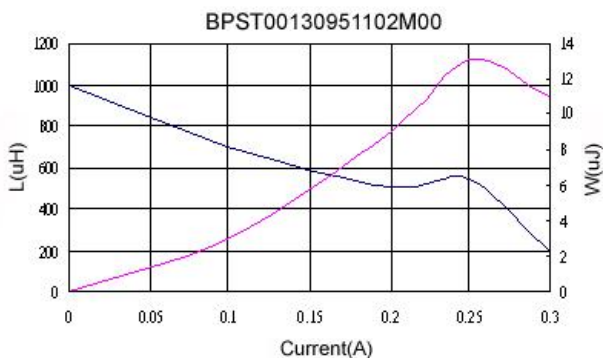
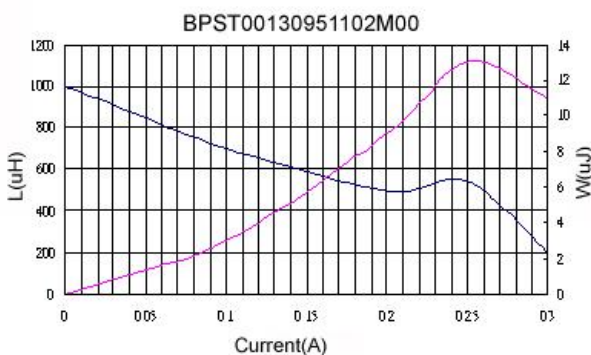
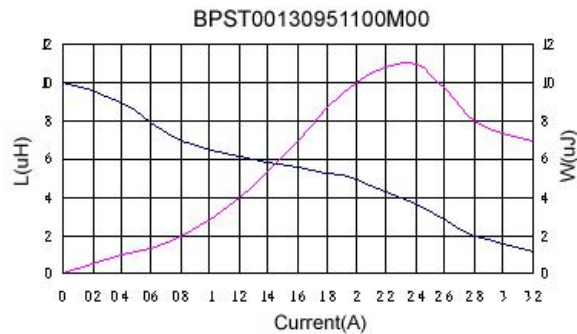
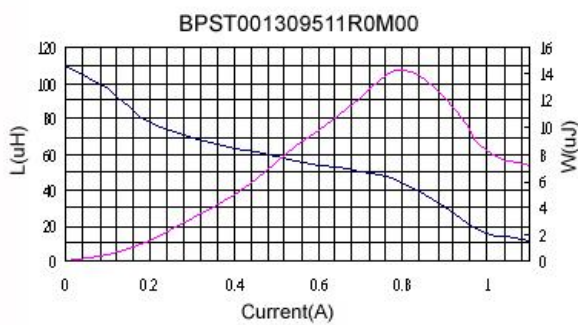
Electrical Characteristics

Specifications				Operating Parameters				
Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (Ω) Max	Self Resonant Frequency (MHz) Typ.	Inductance Rating (μH)	Current Rating (A)	Energy Storage (μ Joules) Max	Switching Frequency Max
BPST001309511R0M00	1.0	20	0.025	60	0.50	5.0	9	1 MHz
BPST001309511R5M00	1.5	20	0.030	55	0.70	5.0	12	1 MHz
BPST001309512R2M00	2.2	20	0.035	55	1.00	5.0	15	1 MHz
BPST001309513R3M00	3.3	20	0.040	50	1.50	5.0	16	1 MHz
BPST001309514R7M00	4.7	20	0.045	45	2.00	3.0	10	1 MHz
BPST001309516R8M00	6.8	20	0.050	40	4.00	2.5	14	1 MHz
BPST00130951100M00	10	20	0.055	35	5.00	2.0	11	1 MHz
BPST00130951150M00	15	20	0.060	25	6.00	1.8	12	1 MHz
BPST00130951220M00	22	20	0.084	22	10	1.5	11	1 MHz
BPST00130951330M00	33	20	0.090	18	12	1.3	13	1 MHz
BPST00130951470M00	47	20	0.11	16	27	1.0	13	1 MHz
BPST00130951680M00	68	20	0.15	12	40	0.90	17	1 MHz
BPST00130951101M00	100	20	0.29	9	50	0.80	15	1 MHz
BPST00130951151M00	150	20	0.36	8	80	0.60	15	500 kHz
BPST00130951221M00	220	20	0.39	6	90	0.50	10	500 kHz
BPST00130951331M00	330	20	0.73	5	150	0.40	13	500 kHz
BPST00130951471M00	470	20	0.88	4	200	0.35	13	500 kHz
BPST00130951681M00	680	20	1.15	3	300	0.30	13	500 kHz
BPST00130951102M00	1000	20	1.45	2.5	420	0.25	13	500 kHz

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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Typical Inductance Energy Storage VS. Current

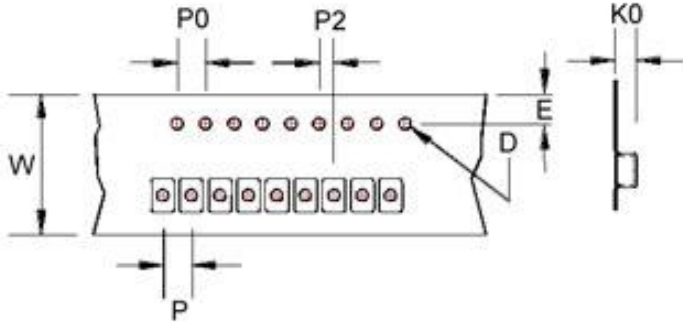


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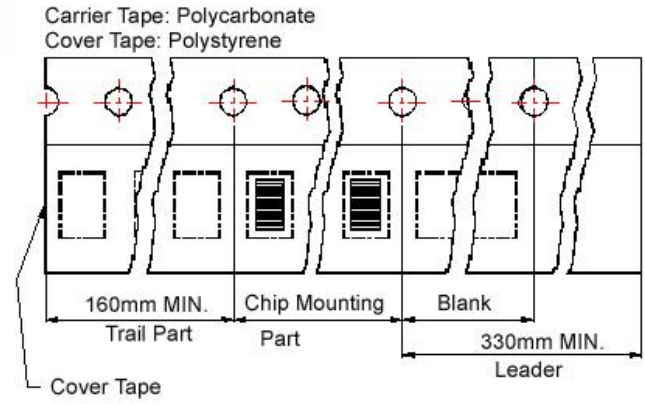
SMD Shielded Power Inductors - BPST Series

Packaging Specifications

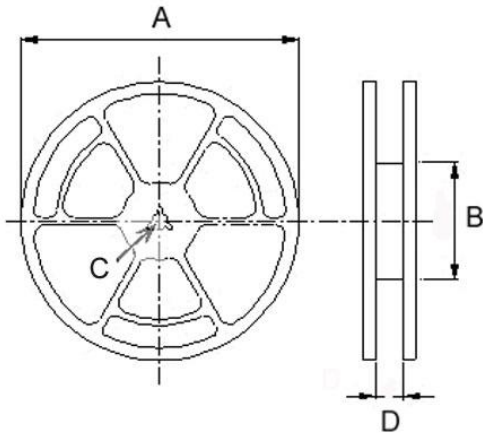
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity (PCS / REEL)	
	K0	D	E	W	P	P0	P2	A	B	C	D	178mm	330mm
BPST00070429	3.2	1.55	1.75	12	8	4	2	330	100	13	13.4	-	2500
								178	60	13	13.2	750	-
BPST00130951	5.4	1.55	1.75	24	16	4	2	330	100	13	24.4	-	750