

DATA SHEET

INDUCTOR

Power Inductors

BPXX Series

RoHS compliant & Halogen Free



BPXX Series



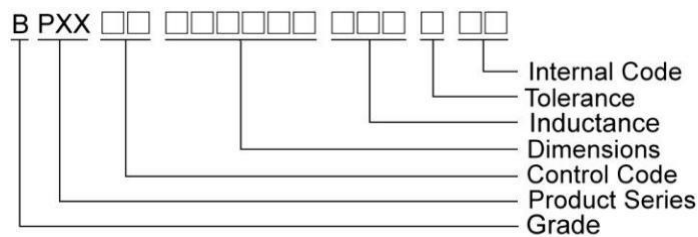
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

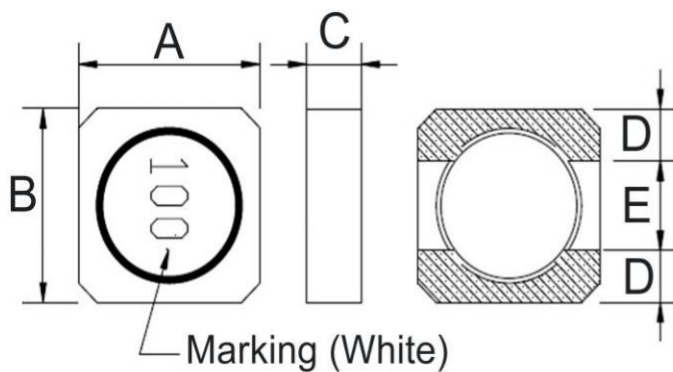
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters
- SSD
- Networking

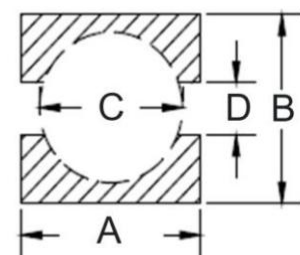
Product Identification



Shape and Dimensions



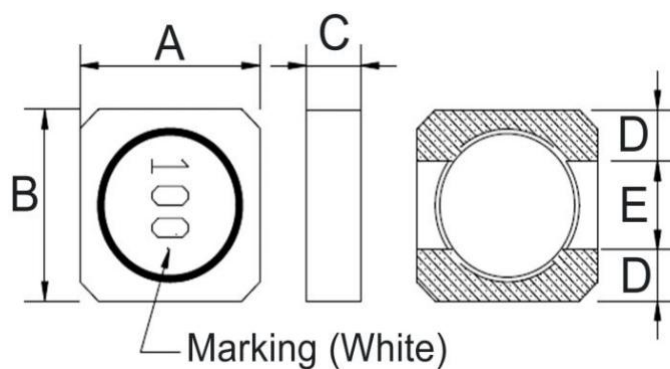
Recommended Pattern



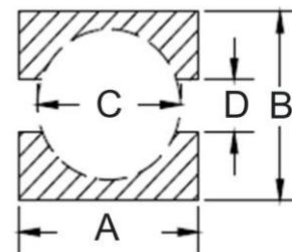
Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPXX00030308	3.0±0.2	3.0±0.2	0.8Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030310	3.0±0.2	3.0±0.2	1.0Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030312	3.0±0.2	3.0±0.2	1.2Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030315	3.0±0.2	3.0±0.2	1.5Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030320	3.0±0.2	3.0±0.2	2.0Max	0.9	1.2	3.3	3.3	2.2	1.0

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPXX00040412	4.0±0.2	4.0±0.2	1.2Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040418	4.0±0.2	4.0±0.2	1.8Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040420	4.0±0.2	4.0±0.2	2.0Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040430	4.0±0.2	4.0±0.2	3.0Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00050515	5.0±0.2	5.0±0.2	1.5Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00050520	5.0±0.2	5.0±0.2	2.0Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00050530	5.0±0.2	5.0±0.2	3.0Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00060620	6.0±0.2	6.0±0.2	2.0Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060625	6.0±0.2	6.0±0.2	2.5Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060630	6.0±0.2	6.0±0.2	3.0Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060635	6.0±0.2	6.0±0.2	3.5Max	2.0	2.0	6.6	6.6	4.6	2.0

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000303081R0□00	1.0	30	100	0.125	1.4	1.3	1R0
BPXX000303081R5□00	1.5	20,30	100	0.134	1.15	1.2	1R5
BPXX000303082R2□00	2.2	20,30	100	0.175	0.95	1.1	2R2
BPXX000303083R3□00	3.3	20,30	100	0.285	0.82	0.95	3R3
BPXX000303084R7□00	4.7	20,30	100	0.35	0.70	0.8	4R7
BPXX000303086R8□00	6.8	20,30	100	0.5	0.59	0.67	6R8
BPXX00030308100□00	10	20,30	100	0.65	0.49	0.56	100
BPXX00030308220□00	22	20,30	100	1.5	0.30	0.38	220
BPXX00030308330□00	33	20,30	100	2.3	0.26	0.32	330

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00030310R47□00	0.47	20,30	100	0.07	2.3	2.3	R47
BPXX00030310R56□00	0.56	20,30	100	0.08	2.0	2.0	R56
BPXX000303101R0□00	1.0	20,30	100	0.085	1.6	1.75	1R0
BPXX000303101R2□00	1.2	20,30	100	0.10	1.5	1.7	1R2
BPXX000303101R5□00	1.5	20,30	100	0.12	1.3	1.6	1R5
BPXX000303101R8□00	1.8	20,30	100	0.15	1.2	1.4	1R8
BPXX000303102R2□00	2.2	20,30	100	0.22	1.1	1.15	2R2
BPXX000303103R3□00	3.3	20,30	100	0.22	0.82	1.05	3R3
BPXX000303103R9□00	3.9	20,30	100	0.25	0.78	0.95	3R9
BPXX000303104R7□00	4.7	20,30	100	0.33	0.72	0.80	4R7
BPXX000303105R6□00	5.6	20,30	100	0.40	0.66	0.78	5R6
BPXX000303106R8□00	6.8	20,30	100	0.45	0.62	0.74	6R8
BPXX000303108R2□00	8.2	20,30	100	0.56	0.55	0.71	8R2
BPXX00030310100□00	10	20,30	100	0.63	0.51	0.64	100
BPXX00030310120□00	12	20,30	100	0.74	0.45	0.55	120
BPXX00030310150□00	15	20,30	100	0.95	0.40	0.50	150
BPXX00030310180□00	18	20,30	100	1.0	0.37	0.47	180
BPXX00030310220□00	22	20,30	100	1.2	0.33	0.41	220
BPXX00030310330□00	33	20,30	100	2.0	0.27	0.35	330
BPXX00030310470□00	47	20,30	100	3.2	0.24	0.31	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or I rms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00030312R47□00	0.47	30	100	0.05	2.5	2.5	R47
BPXX000303121R0□00	1.0	30	100	0.08	1.8	1.8	1R0
BPXX000303121R2□00	1.2	30	100	0.095	1.65	1.7	1R2
BPXX000303121R5□00	1.5	30	100	0.11	1.5	1.65	1R5
BPXX000303122R0□00	2.0	30	100	0.15	1.3	1.3	2R0
BPXX000303122R2□00	2.2	30	100	0.15	1.3	1.3	2R2
BPXX000303123R3□00	3.3	30	100	0.18	1.0	1.2	3R3
BPXX000303124R7□00	4.7	20,30	100	0.28	0.85	1.05	4R7
BPXX000303125R6□00	5.6	20,30	100	0.36	0.80	0.85	5R6
BPXX000303126R8□00	6.8	20,30	100	0.42	0.75	0.70	6R8
BPXX000303128R2□00	8.2	20,30	100	0.55	0.65	0.65	8R2

POWER INDUCTORS

BPXX

BPXX00030312100□00	10	20,30	100	0.62	0.57	0.6	100
BPXX00030312150□00	15	20,30	100	0.8	0.5	0.5	150
BPXX00030312220□00	22	20,30	100	1.2	0.4	0.42	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000303151R0□00	1.0	20,30	100	0.075	2.0	2.0	1R0
BPXX000303151R5□00	1.5	20,30	100	0.10	1.8	1.7	1R5
BPXX000303151R8□00	1.8	20,30	100	0.10	1.5	1.4	1R8
BPXX000303152R1□00	2.1	20,30	100	0.11	1.5	1.4	2R1
BPXX000303152R2□00	2.2	20,30	100	0.11	1.5	1.4	2R2
BPXX000303153R3□00	3.3	20,30	100	0.13	1.3	1.4	3R3
BPXX000303154R7□00	4.7	20,30	100	0.20	1.1	1.2	4R7
BPXX000303156R8□00	6.8	20,30	100	0.30	0.91	0.90	6R8
BPXX00030315100□00	10	20,30	100	0.44	0.65	0.75	100
BPXX00030315150□00	15	20,30	100	0.70	0.55	0.59	150
BPXX00030315180□00	18	20,30	100	0.75	0.53	0.58	180
BPXX00030315220□00	22	20,30	100	0.825	0.49	0.57	220
BPXX00030315330□00	33	20,30	100	1.30	0.42	0.48	330
BPXX00030315470□00	47	20,30	100	1.55	0.32	0.40	470
BPXX00030315680□00	68	20,30	100	2.25	0.28	0.33	680
BPXX00030315101□00	100	20,30	100	3.4	0.23	0.26	101
BPXX00030315471□00	470	20,30	100	15	0.11	0.11	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000303201R0□00	1.0	20,30	100	0.04	2.8	2.5	1R0
BPXX000303202R2□00	2.2	20,30	100	0.08	2.0	1.8	2R2
BPXX000303203R3□00	3.3	20,30	100	0.10	1.8	1.6	3R3
BPXX000303204R7□00	4.7	20,30	100	0.14	1.6	1.4	4R7
BPXX000303206R8□00	6.8	20,30	100	0.17	1.4	1.2	6R8
BPXX00030320100□00	10	20,30	100	0.4	1.0	0.80	100
BPXX00030320220□00	22	20,30	100	0.6	0.7	0.65	220
BPXX00030320330□00	33	20,30	100	1.0	0.6	0.52	330
BPXX00030320470□00	47	20,30	100	1.35	0.5	0.50	470

Note: When ordering, please specify tolerance 00de. Tolerance: M=±20% , T=±30%

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- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00040412R33□00	0.33	20,30	100	0.023	5.6	3.7	R33
BPXX00040412R47□00	0.47	30	100	0.045	4.0	2.5	R47
BPXX00040412R68□00	0.68	30	100	0.055	3.5	2.45	R68
BPXX000404121R0□00	1.0	30	100	0.060	2.8	2.4	1R0
BPXX000404121R2□00	1.2	20,30	100	0.065	2.65	2.3	1R2
BPXX000404121R5□00	1.5	30	100	0.07	2.5	2.2	1R5
BPXX000404122R2□00	2.2	20,30	100	0.10	2.1	1.75	2R2
BPXX000404123R3□00	3.3	20,30	100	0.13	1.5	1.45	3R3
BPXX000404124R7□00	4.7	20,30	100	0.175	1.4	1.3	4R7
BPXX000404125R6□00	5.6	20,30	100	0.26	1.3	1.1	5R6
BPXX000404126R8□00	6.8	20,30	100	0.34	1.2	0.98	6R8
BPXX00040412100□00	10	20,30	100	0.35	0.7	0.75	100
BPXX00040412150□00	15	20,30	100	0.55	0.6	0.73	150
BPXX00040412470□00	47	20,30	100	1.4	0.38	0.52	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or I rms

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00040418R56□00	0.56	20,30	100	0.030	4.8	2.80	R56
BPXX00040418R68□00	0.68	30	100	0.035	4.5	2.75	R68
BPXX000404181R0□00	1.0	30	100	0.04	3.4	2.7	1R0
BPXX000404181R5□00	1.5	30	100	0.05	2.7	2.5	1R5
BPXX000404181R6□00	1.6	20,30	100	0.05	2.7	2.5	1R6
BPXX000404181R8□00	1.8	30	100	0.06	2.6	2.4	1R8
BPXX000404182R2□00	2.2	20,30	100	0.07	2.5	2.2	2R2
BPXX000404182R5□00	2.5	20,30	100	0.075	2.4	2.1	2R5
BPXX000404183R3□00	3.3	20,30	100	0.08	2.2	2.0	3R3
BPXX000404183R6□00	3.6	20,30	100	0.10	2.0	1.8	3R6
BPXX000404183R9□00	3.9	20,30	100	0.10	2.0	1.8	3R9
BPXX000404184R7□00	4.7	20,30	100	0.125	1.7	1.6	4R7
BPXX000404185R6□00	5.6	20,30	100	0.135	1.5	1.45	5R6
BPXX000404186R8□00	6.8	20,30	100	0.15	1.2	1.30	6R8
BPXX00040418100□00	10	20,30	100	0.20	1.1	1.15	100
BPXX00040418150□00	15	20,30	100	0.28	0.86	0.90	150
BPXX00040418180□00	18	20,30	100	0.30	0.78	0.88	180
BPXX00040418220□00	22	20,30	100	0.36	0.74	0.85	220
BPXX00040418330□00	33	20,30	100	0.46	0.58	0.77	330
BPXX00040418470□00	47	20,30	100	0.75	0.51	0.63	470
BPXX00040418680□00	68	20,30	100	1.07	0.41	0.48	680
BPXX00040418820□00	82	20,30	100	1.22	0.38	0.44	820
BPXX00040418101□00	100	20,30	100	1.64	0.34	0.42	101
BPXX00040418121□00	120	20,30	100	1.88	0.31	0.38	121
BPXX00040418151□00	150	20,30	100	2.45	0.27	0.31	151
BPXX00040418181□00	180	20,30	100	2.91	0.24	0.30	181
BPXX00040418221□00	220	20,30	100	4.2	0.22	0.24	221
BPXX00040418331□00	330	20,30	100	5.9	0.18	0.22	331
BPXX00040418471□00	470	20,30	100	7.1	0.14	0.20	471
BPXX00040418561□00	560	20,30	100	10	0.13	0.18	561
BPXX00040418681□00	680	20,30	100	11.5	0.12	0.16	681
BPXX00040418821□00	820	20,30	100	17.8	0.11	0.12	821
BPXX00040418102□00	1000	20,30	100	19.4	0.10	0.10	102
BPXX00040418152□00	1500	20,30	100	30	0.08	0.08	152

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Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000404201R8□00	1.8	30	100	0.051	1.97	2.37	1R8
BPXX000404202R2□00	2.2	30	100	0.059	1.72	2.19	2R2
BPXX000404203R3□00	3.3	30	100	0.078	1.52	1.94	3R3
BPXX000404204R7□00	4.7	20,30	100	0.098	1.24	1.71	4R7
BPXX000404206R8□00	6.8	20,30	100	0.131	1.05	1.47	6R8
BPXX00040420100□00	10	20,30	100	0.185	0.85	1.0	100
BPXX00040420150□00	15	20,30	100	0.241	0.70	0.9	150
BPXX00040420220□00	22	20,30	100	0.431	0.56	0.8	220
BPXX00040420330□00	33	20,30	100	0.628	0.47	0.69	330
BPXX00040420470□00	47	20,30	100	0.934	0.39	0.56	470
BPXX00040420680□00	68	20,30	100	1.2	0.32	0.5	680
BPXX00040420101□00	100	20,30	100	1.4	0.26	0.4	101
BPXX00040420561□00	560	20,30	100	6.6	0.12	0.2	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000404301R0□00	1.0	30	100	0.020	2.80	3.3	1R0
BPXX000404301R2□00	1.2	30	100	0.025	2.65	3.1	1R2
BPXX000404301R5□00	1.5	30	100	0.028	2.6	3.0	1R5
BPXX000404302R2□00	2.2	30	100	0.035	2.3	2.7	2R2
BPXX000404303R3□00	3.3	20,30	100	0.045	2.1	2.5	3R3
BPXX000404304R7□00	4.7	20,30	100	0.055	2.0	2.3	4R7
BPXX000404306R8□00	6.8	20,30	100	0.078	1.5	2.0	6R8
BPXX00040430100□00	10	20,30	100	0.130	1.0	1.5	100
BPXX00040430120□00	12	20,30	100	0.175	0.9	1.4	120
BPXX00040430150□00	15	20,30	100	0.21	0.85	1.3	150
BPXX00040430220□00	22	20,30	100	0.29	0.8	1.1	220
BPXX00040430330□00	33	20,30	100	0.455	0.7	0.85	330
BPXX00040430470□00	47	20,30	100	0.685	0.6	0.70	470
BPXX00040430680□00	68	20,30	100	0.955	0.5	0.55	680
BPXX00040430820□00	82	20,30	100	1.1	0.45	0.45	820
BPXX00040430101□00	100	20,30	100	1.5	0.4	0.40	101
BPXX00040430151□00	150	20,30	100	2.4	0.3	0.35	151
BPXX00040430181□00	180	20,30	100	3.6	0.25	0.30	181
BPXX00040430471□00	470	20,30	100	5.5	0.14	0.15	471
BPXX00040430102□00	1000	20,30	100	9	0.12	0.12	102
BPXX00040430122□00	1200	20,30	100	14	0.11	0.11	122
BPXX00040430222□00	2200	20,30	100	18	0.09	0.09	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000505151R0□00	1.0	20,30	100	0.05	3.5	2.65	1R0
BPXX000505151R2□00	1.2	20,30	100	0.05	3.5	2.65	1R2
BPXX000505151R3□00	1.3	20,30	100	0.065	2.6	2.35	1R3
BPXX000505151R5□00	1.5	20,30	100	0.065	2.6	2.35	1R5
BPXX000505151R8□00	1.8	30	100	0.075	2.6	2.15	1R8
BPXX000505152R2□00	2.2	20,30	100	0.09	2.6	2.0	2R2
BPXX000505153R3□00	3.3	20,30	100	0.125	2.0	1.8	3R3
BPXX000505154R7□00	4.7	20,30	100	0.150	1.7	1.62	4R7
BPXX000505155R6□00	5.6	20,30	100	0.175	1.6	1.45	5R6
BPXX000505156R8□00	6.8	20,30	100	0.225	1.4	1.25	6R8
BPXX000505158R2□00	8.2	20,30	100	0.28	1.3	1.05	8R2
BPXX00050515100□00	10	20,30	100	0.30	1.1	0.95	100
BPXX00050515120□00	12	20,30	100	0.35	1.0	0.84	120
BPXX00050515150□00	15	20,30	100	0.36	0.7	0.84	150
BPXX00050515180□00	18	20,30	100	0.55	0.65	0.83	180
BPXX00050515220□00	22	20,30	100	0.675	0.65	0.82	220
BPXX00050515330□00	33	20,30	100	0.75	0.50	0.70	330
BPXX00050515470□00	47	20,30	100	1.0	0.45	0.57	470
BPXX00050515560□00	56	20,30	100	1.13	0.40	0.52	560
BPXX00050515680□00	68	20,30	100	1.45	0.38	0.47	680
BPXX00050515101□00	100	20,30	100	1.95	0.28	0.42	101
BPXX00050515121□00	120	20,30	100	2.5	0.28	0.37	121
BPXX00050515151□00	150	20,30	100	3.4	0.24	0.33	151
BPXX00050515221□00	220	20,30	100	4.5	0.20	0.29	221
BPXX00050515331□00	330	20,30	100	7.4	0.165	0.22	331
BPXX00050515471□00	470	20,30	100	7.5	0.12	0.21	471
BPXX00050515561□00	560	20,30	100	8.5	0.11	0.19	561
BPXX00050515681□00	680	20,30	100	10.6	0.10	0.175	681
BPXX00050515102□00	1000	20,30	100	20	0.08	0.15	102

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm$ 20% , T= $\pm$ 30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00050520R30□00	0.30	30	100	0.00875	6.0	7	R30
BPXX00050520R33□00	0.33	30	100	0.01065	5.8	6	R33
BPXX00050520R68□00	0.68	30	100	0.01470	4.0	5.2	R68
BPXX000505201R0□00	1.0	30	100	0.02455	3.5	4.0	1R0
BPXX000505201R3□00	1.3	30	100	0.035	3.2	3.3	1R3
BPXX000505201R5□00	1.5	30	100	0.035	3.2	3.3	1R5
BPXX000505201R8□00	1.8	20,30	100	0.045	3.0	3.0	1R8
BPXX000505202R2□00	2.2	20,30	100	0.055	2.7	2.75	2R2
BPXX000505202R5□00	1.3	20,30	100	0.060	2.6	2.6	2R5
BPXX000505202R7□00	1.3	20,30	100	0.062	2.5	2.6	2R7
BPXX000505203R3□00	3.3	20,30	100	0.065	2.4	2.5	3R3
BPXX000505204R7□00	4.7	20,30	100	0.08	2.1	2.0	4R7
BPXX000505205R6□00	5.6	20,30	100	0.09	1.95	1.9	5R6
BPXX000505206R8□00	6.8	20,30	100	0.105	1.8	1.7	6R8
BPXX000505208R2□00	8.2	20,30	100	0.12	1.6	1.6	8R2
BPXX00050520100□00	10	20,30	100	0.15	1.4	1.5	100
BPXX00050520150□00	15	20,30	100	0.27	1.1	1.2	150
BPXX00050520220□00	22	20,30	100	0.35	0.78	0.9	220
BPXX00050520330□00	33	20,30	100	0.48	0.65	0.8	330
BPXX00050520470□00	47	20,30	100	0.75	0.60	0.7	470
BPXX00050520101□00	100	20,30	100	1.21	0.34	0.55	101
BPXX00050520121□00	120	20,30	100	1.60	0.30	0.48	121
BPXX00050520151□00	150	20,30	100	2.25	0.28	0.40	151
BPXX00050520221□00	220	20,30	100	3.3	0.26	0.37	221
BPXX00050520331□00	330	20,30	100	4.2	0.22	0.30	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or I rms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000505301R2□00	1.2	20,30	100	0.040	3.5	2.65	1R2
BPXX000505302R2□00	2.2	30	100	0.057	3.1	2.15	2R2
BPXX000505303R3□00	3.3	20,30	100	0.066	2.5	1.80	3R3
BPXX000505304R7□00	4.7	20,30	100	0.083	2.0	1.75	4R7
BPXX000505306R8□00	6.8	20,30	100	0.099	1.7	1.6	6R8
BPXX000505308R2□00	8.2	20,30	100	0.12	1.6	1.5	8R2
BPXX00050530100□00	10	20,30	100	0.15	1.5	1.4	100
BPXX00050530120□00	12	20,30	100	0.16	1.4	1.3	120
BPXX00050530150□00	15	20,30	100	0.175	1.3	1.2	150
BPXX00050530220□00	22	20,30	100	0.19	1.0	1.1	220
BPXX00050530270□00	27	20,30	100	0.27	0.9	1.0	270
BPXX00050530330□00	33	20,30	100	0.35	0.8	0.9	330
BPXX00050530470□00	47	20,30	100	0.50	0.75	0.75	470
BPXX00050530560□00	56	20,30	100	0.65	0.65	0.65	560
BPXX00050530680□00	68	20,30	100	0.75	0.60	0.60	680
BPXX00050530101□00	100	20,30	100	0.90	0.45	0.55	101
BPXX00050530221□00	220	20,30	100	1.35	0.25	0.45	221
BPXX00050530331□00	330	20,30	100	1.8	0.17	0.42	331
BPXX00050530821□00	820	20,30	100	5.0	0.12	0.26	821
BPXX00050530102□00	1000	20,30	100	5.1	0.11	0.25	102
BPXX00050530152□00	1500	20	100	7.6	0.09	0.18	152
BPXX00050530222□00	2200	20	100	11	0.08	0.15	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606201R2□00	1.2	30	100	0.03	3.5	3.0	1R2
BPXX000606201R3□00	1.3	30	100	0.0305	3.2	3.0	1R3
BPXX000606201R5□00	1.5	30	100	0.0305	3.2	3.0	1R5
BPXX000606201R8□00	1.8	30	100	0.0375	3.0	2.6	1R8
BPXX000606202R2□00	2.2	30	100	0.04	2.7	2.4	2R2
BPXX000606202R5□00	2.5	20,30	100	0.04	2.7	2.4	1R5
BPXX000606203R3□00	3.3	20,30	100	0.06	2.5	2.3	3R3
BPXX000606204R7□00	4.7	20,30	100	0.07	2.1	2.0	4R7
BPXX000606206R2□00	6.2	20,30	100	0.085	1.9	1.8	6R2
BPXX000606206R8□00	6.8	20,30	100	0.085	1.9	1.8	6R8
BPXX000606208R2□00	8.2	20,30	100	0.125	1.7	1.5	8R2
BPXX00060620100□00	10	20,30	100	0.15	1.4	1.2	100
BPXX00060620150□00	15	20,30	100	0.22	1.1	1.1	150
BPXX00060620220□00	22	20,30	100	0.32	1.0	0.9	220
BPXX00060620330□00	33	20,30	100	0.45	0.9	0.8	330
BPXX00060620470□00	47	20,30	100	0.6	0.85	0.7	470
BPXX00060620101□00	100	20,30	100	1.2	0.5	0.45	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or I rms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606251R0□00	1.0	30	100	0.035	5.5	1.80	1R0
BPXX000606251R2□00	1.2	30	100	0.040	5.3	1.65	1R2
BPXX000606251R5□00	1.5	30	100	0.040	5.3	1.65	1R5
BPXX000606252R2□00	2.2	30	100	0.045	3.9	1.40	2R2
BPXX000606253R3□00	3.3	20,30	100	0.055	3.5	1.35	3R3
BPXX000606254R7□00	4.7	20,30	100	0.065	3.1	1.3	4R7
BPXX000606255R0□00	5.0	30	100	0.065	3.1	1.3	5R0
BPXX000606256R8□00	6.8	20,30	100	0.095	2.7	1.3	6R8
BPXX000606258R2□00	8.2	20,30	100	0.100	2.2	1.3	8R2
BPXX00060625100□00	10	20,30	100	0.105	2.0	1.3	100
BPXX00060625150□00	15	20,30	100	0.135	2.0	1.2	150
BPXX00060625220□00	22	20,30	100	0.175	1.4	1.1	220
BPXX00060625330□00	33	20,30	100	0.26	1.1	0.9	330
BPXX00060625470□00	47	20,30	100	0.42	0.98	0.8	470
BPXX00060625680□00	68	20,30	100	0.42	0.59	0.74	470
BPXX00060625101□00	100	20,30	100	0.61	0.48	0.64	101
BPXX00060625121□00	120	20,30	100	0.75	0.43	0.58	121
BPXX00060625151□00	150	20,30	100	0.92	0.40	0.54	151
BPXX00060625221□00	220	20,30	100	1.3	0.32	0.50	221
BPXX00060625331□00	330	20,30	100	2.0	0.26	0.39	331
BPXX00060625471□00	470	20,30	100	2.6	0.22	0.37	471
BPXX00060625681□00	680	20,30	100	4	0.18	0.26	681
BPXX00060625102□00	1000	20,30	100	6	0.15	0.24	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606301R0□00	1.0	30	100	0.01385	4.2	4.5	1R0
BPXX000606301R5□00	1.5	30	100	0.0190	4.0	4.0	1R5
BPXX000606302R2□00	2.2	30	100	0.02375	3.8	3.8	2R2
BPXX000606302R7□00	2.7	20,30	100	0.032	3.7	3.7	2R7
BPXX000606303R3□00	3.3	20,30	100	0.036	3.6	2.75	3R3
BPXX000606304R7□00	4.7	20,30	100	0.045	3.3	2.5	4R7
BPXX000606305R0□00	5.0	30	100	0.045	3.3	2.5	5R0
BPXX000606306R2□00	6.2	20,30	100	0.056	2.5	2.4	6R2
BPXX000606306R8□00	6.8	20,30	100	0.056	2.5	2.4	6R8
BPXX000606308R2□00	8.2	20,30	100	0.070	2.3	2.3	8R2
BPXX00060630100□00	10	20,30	100	0.085	2.2	2.2	100
BPXX00060630120□00	12	20,30	100	0.10	1.9	1.9	120
BPXX00060630150□00	15	20,30	100	0.12	1.7	1.6	150
BPXX00060630180□00	18	20,30	100	0.14	1.6	1.5	180
BPXX00060630220□00	22	20,30	100	0.16	1.5	1.4	220
BPXX00060630330□00	33	20,30	100	0.22	1.3	1.1	330
BPXX00060630470□00	47	20,30	100	0.3	1.1	1.0	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or I rms

Standard Specifications

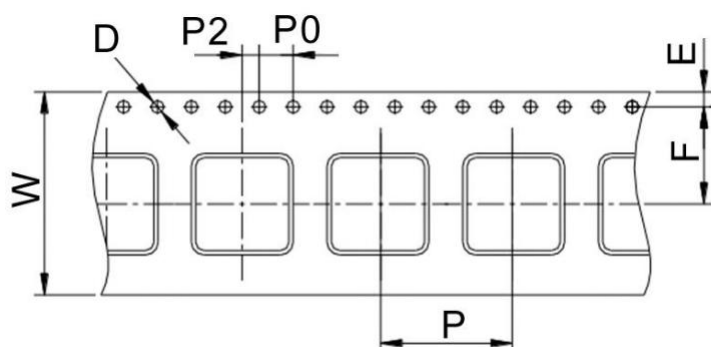
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat 1 (A)Typ	Isat 2 (A)Typ	Isat 3 (A)Typ	Irms (A)Typ	Marking
BPXX00060635100□00	10	20,30	100	0.10	2.3	2.4	2.5	1.8	100
BPXX00060635220□00	22	20,30	100	0.145	1.6	1.7	1.7	2.0	220
BPXX00060635330□00	33	20,30	100	0.18	1.3	1.4	1.5	1.3	330
BPXX00060635470□00	47	20,30	100	0.245	1.1	1.2	1.2	1.2	470
BPXX00060635560□00	56	20,30	100	0.280	1.0	1.0	1.1	1.07	560
BPXX00060635680□00	68	20,30	100	0.345	0.9	0.94	0.96	1.1	680
BPXX00060635101□00	100	20,30	100	0.375	0.46	0.52	0.54	0.9	101
BPXX00060635221□00	220	20,30	100	0.72	0.31	0.36	0.37	0.64	221
BPXX00060635471□00	470	20,30	100	1.6	0.22	0.25	0.26	0.43	471
BPXX00060635681□00	680	20,30	100	2.2	0.17	0.19	0.21	0.37	681
BPXX00060635102□00	1000	20,30	100	3.2	0.14	0.17	0.18	0.30	102
BPXX00060635152□00	1500	20,30	100	4.6	0.12	0.13	0.14	0.26	152
BPXX00060635103□00	10000	20,30	1	30.5	0.05	0.055	0.06	0.095	103

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

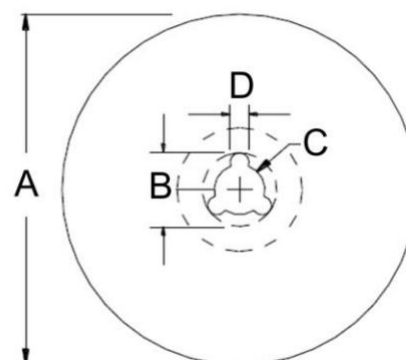
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat 1 for Inductance drop 10% from its value without current
- Isat 2 for Inductance drop 20% from its value without current
- Isat 3 for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat1~3 or I rms

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	W	D	E	F	P	P0	P2	A	B	C	D	
BPXX00030308	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1500
BPXX00030310	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1500
BPXX00030312	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1500
BPXX00030315	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00030320	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040412	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040418	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040420	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040430	12	1.5	1.75	5.5	8	4	2	178	20	13	2	600
BPXX00050515	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00050520	12	1.5	1.75	5.5	8	4	2	178	20	13	2	900
BPXX00050530	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPXX00060620	16	1.5	1.75	7.5	12	4	2	330	20	13	2	2000
BPXX00060625	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPXX00060630	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPXX00060635	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

BPXX00030308100M00	BPXX00030308100T00	BPXX000303081R0T00	BPXX000303081R5M00
BPXX000303081R5T00	BPXX00030308220M00	BPXX00030308220T00	BPXX000303082R2M00
BPXX000303082R2T00	BPXX00030308330M00	BPXX00030308330T00	BPXX000303083R3M00
BPXX000303083R3T00	BPXX000303084R7M00	BPXX000303084R7T00	BPXX000303086R8M00
BPXX000303086R8T00	BPXX00030310100M00	BPXX00030310100T00	BPXX00030310120M00
BPXX00030310120T00	BPXX00030310150M00	BPXX00030310150T00	BPXX00030310180M00
BPXX00030310180T00	BPXX000303101R0M00	BPXX000303101R0T00	BPXX000303101R2M00
BPXX000303101R2T00	BPXX000303101R5M00	BPXX000303101R5T00	BPXX000303101R8M00
BPXX000303101R8T00	BPXX00030310220M00	BPXX00030310220T00	BPXX000303102R2M00
BPXX000303102R2T00	BPXX00030310330M00	BPXX00030310330T00	BPXX000303103R3M00
BPXX000303103R3T00	BPXX000303103R9M00	BPXX000303103R9T00	BPXX00030310470M00
BPXX00030310470T00	BPXX000303104R7M00	BPXX000303104R7T00	BPXX000303105R6M00
BPXX000303105R6T00	BPXX000303106R8M00	BPXX000303106R8T00	BPXX000303108R2M00
BPXX000303108R2T00	BPXX00030310R47M00	BPXX00030310R47T00	BPXX00030310R56M00
BPXX00030310R56T00	BPXX00030312100M00	BPXX00030312100T00	BPXX00030312150M00
BPXX00030312150T00	BPXX000303121R0T00	BPXX000303121R2T00	BPXX000303121R5T00
BPXX00030312220M00	BPXX00030312220T00	BPXX000303122R0T00	BPXX000303122R2T00
BPXX000303123R3T00	BPXX000303124R7M00	BPXX000303124R7T00	BPXX000303125R6M00
BPXX000303125R6T00	BPXX000303126R8M00	BPXX000303126R8T00	BPXX000303128R2M00
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BPXX000303152R2M00	BPXX000303152R2T00	BPXX00030315330M00	BPXX00030315330T00