

# SMD Shielded Power Inductors

BPCI Series



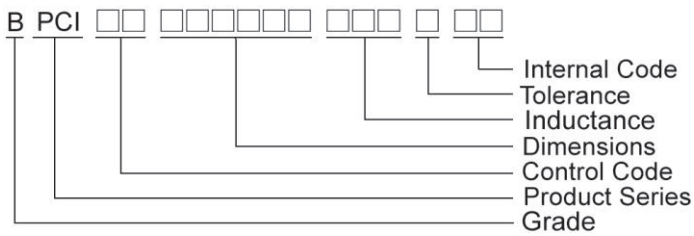
## Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

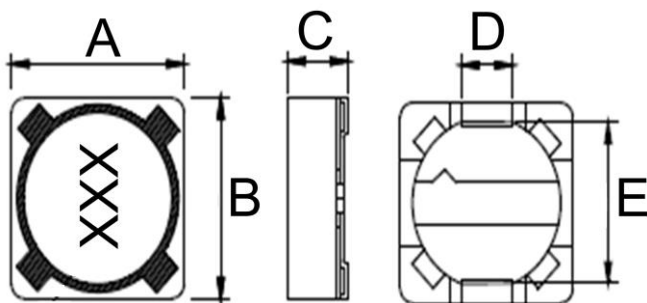
## Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

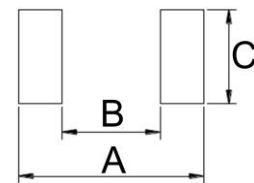
## Product Identification



## Shape and Dimensions



## Recommended Pattern



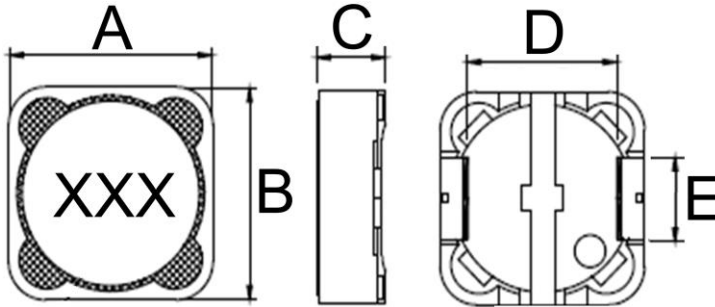
Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPCI00070746-00	7.3±0.5	7.3±0.5	4.6Max	2	5.4	8.0	4.8	2.4
BPCI00070746-A0	7.3±0.5	7.3±0.5	4.6Max	2	5.0	8.0	4.8	2.4

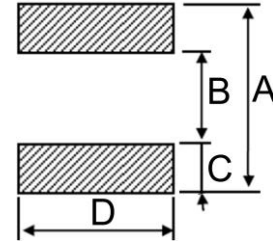
# SMD Shielded Power Inductors

BPCI Series

## Shape and Dimensions



## Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPCI00101040	10.3Max	10.3Max	4.0Max	6.4	4.6±0.2	10.8	5.0	2.9	5.4
BPCI00121250	12±0.5	12±0.5	5.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121260	12±0.5	12±0.5	6.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121280	12±0.5	12±0.5	8.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121210	12±0.5	12±0.5	10Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4

## Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI00070746R33□00	0.33	30	100	0.0087	8.5	R33
BPCI000707461R0□00	1.0	20,30	100	0.0111	6.8	1R0
BPCI000707461R2□00	1.2	20,30	100	0.0111	6.8	1R2
BPCI000707461R5□00	1.5	30	100	0.0134	5.7	1R5
BPCI000707461R8□00	1.8	20,30	100	0.0147	5.0	1R8
BPCI000707462R2□00	2.2	30	100	0.0147	5.0	2R2
BPCI000707463R3□00	3.3	20,30	100	0.0214	4.0	3R3
BPCI000707464R7□00	4.7	20,30	100	0.0310	3.4	4R7
BPCI000707465R6□00	5.6	20,30	100	0.0335	3.0	5R6
BPCI000707466R8□00	6.8	20,30	100	0.035	2.3	6R8
BPCI000707468R2□00	8.2	20,30	100	0.042	2.1	8R2
BPCI00070746100□00	10	20	100	0.049	1.84	100
BPCI00070746120□00	12	20	100	0.058	1.71	120
BPCI00070746150□00	15	20	100	0.081	1.47	150
BPCI00070746180□00	18	20	100	0.091	1.31	180
BPCI00070746220□00	22	20	100	0.11	1.23	220
BPCI00070746270□00	27	20	100	0.15	1.12	270
BPCI00070746330□00	33	20	100	0.20	0.96	330
BPCI00070746390□00	39	20	100	0.23	0.91	390
BPCI00070746470□00	47	20	100	0.26	0.88	470
BPCI00070746560□00	56	20	100	0.35	0.75	560
BPCI00070746680□00	68	20	100	0.38	0.69	680
BPCI00070746820□00	82	20	100	0.43	0.61	820
BPCI00070746101□00	100	20	100	0.61	0.60	101
BPCI00070746121□00	120	20	100	0.66	0.52	121
BPCI00070746151□00	150	20	100	0.88	0.46	151
BPCI00070746181□00	180	20	100	0.98	0.42	181
BPCI00070746221□00	220	20	100	1.17	0.36	221
BPCI00070746271□00	270	20	100	1.64	0.34	271
BPCI00070746331□00	330	20	100	1.86	0.32	331
BPCI00070746391□00	390	20	100	2.85	0.29	391
BPCI00070746471□00	470	20	100	3.01	0.26	471

BPCI00070746561□00	560	20	100	3.62	0.23	561
BPCI00070746681□00	680	20	100	4.63	0.22	681
BPCI00070746821□00	820	20	100	5.2	0.20	821
BPCI00070746102□00	1000	20	100	6.0	0.18	102

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated Current : Based on inductance change ( $\Delta L/L_0$  : drop 35% Max.) @ ambient temp. 25°C and Based on temperature rise ( $\Delta T$  : 40°C Typ.)

## Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC ( $\Omega$ )Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI000707461R5□A0	1.5	20,30	100	0.0089	7.0	6.6	1R5
BPCI000707461R8□A0	1.8	20,30	100	0.0105	6.7	5.9	1R8
BPCI000707462R2□A0	2.2	20,30	100	0.0126	6.5	5.0	2R2
BPCI000707463R3□A0	3.3	20,30	100	0.0169	5.9	4.8	3R3
BPCI000707464R7□A0	4.7	20,30	100	0.0235	4.5	4.2	4R7
BPCI000707466R8□A0	6.8	20,30	100	0.0282	4.3	4.0	6R8
BPCI00070746100□A0	10	20,30	100	0.0489	3.2	3.0	100
BPCI00070746150□A0	15	20,30	100	0.0637	2.48	2.11	150
BPCI00070746220□A0	22	20,30	100	0.0925	2.13	1.75	220
BPCI00070746270□A0	27	20,30	100	0.115	1.95	1.59	270
BPCI00070746330□A0	33	20	100	0.143	1.73	1.41	330
BPCI00070746470□A0	47	20	100	0.216	1.41	1.15	470
BPCI00070746560□A0	56	20,30	100	0.260	1.30	1.14	560
BPCI00070746680□A0	68	20	100	0.291	1.20	1.12	680
BPCI00070746101□A0	100	20	100	0.383	0.99	0.86	101
BPCI00070746151□A0	150	20	100	0.58	0.83	0.80	151
BPCI00070746181□A0	180	20,30	100	0.77	0.80	0.73	181
BPCI00070746221□A0	220	20,30	100	0.92	0.78	0.65	221
BPCI00070746331□A0	330	20	100	1.41	0.54	0.45	331
BPCI00070746471□A0	470	20	100	2.44	0.49	0.40	471
BPCI00070746102□A0	1000	20	100	3.89	0.31	0.27	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
- 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(Typ)	Isat (A)Max	Irms (A)Typ	Marking
BPCI001010401R0□00	1.0	30	100	0.0115(0.0085)	12	12	1R0
BPCI001010401R5□00	1.5	30	100	0.0162(0.0120)	11	10.8	1R5
BPCI001010401R8□00	1.8	30	100	0.0191(0.0141)	10.2	10	1R8
BPCI001010402R5□00	2.5	30	100	0.0257(0.019)	8.5	8.3	2R5
BPCI001010403R3□00	3.3	30	100	0.0365(0.027)	7.6	7.0	3R3
BPCI001010404R7□00	4.7	30	100	0.0392(0.029)	7.0	6.2	4R7
BPCI001010405R2□00	5.2	30	100	0.0446(0.033)	6.5	6.0	5R2
BPCI001010406R2□00	6.2	20,30	100	0.0513(0.038)	5.6	5.0	6R2
BPCI001010407R3□00	7.3	20,30	100	0.0608(0.045)	4.8	4.5	7R3
BPCI00101040100□00	10	20,30	100	0.0770(0.057)	4.4	3.9	100
BPCI00101040150□00	15	20,30	100	0.117(0.087)	3.6	3.3	150
BPCI00101040220□00	22	20,30	100	0.159(0.122)	3.2	2.5	220
BPCI00101040330□00	33	20,30	100	0.242(0.186)	2.5	2.0	330
BPCI00101040470□00	47	20,30	100	0.358(0.275)	2.1	1.65	470
BPCI00101040560□00	56	20,30	100	0.408(0.314)	1.9	1.4	560
BPCI00101040680□00	68	20,30	100	0.477(0.367)	1.8	1.3	680
BPCI00101040101□00	100	20,30	100	0.698(0.537)	1.45	1.1	101
BPCI00101040151□00	150	20,30	100	1.090(0.845)	1.25	0.9	151
BPCI00101040221□00	220	20,30	100	1.586(1.2)	0.9	0.8	221
BPCI00101040331□00	330	20,30	100	2.3(1.77)	0.8	0.6	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 35% 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
BPCI001212101R0□00	1.0	30	100	0.0055	19.9	11.6	1R0
BPCI001212101R8□00	1.8	30	100	0.0065	13.4	11.0	1R8
BPCI001212102R0□00	2.0	30	100	0.0070	12.9	10.7	2R0
BPCI001212102R2□00	2.2	20,30	100	0.0070	12.9	10.7	2R2
BPCI001212102R5□00	2.5	30	100	0.0080	12.16	10.3	2R5
BPCI001212103R5□00	3.5	30	100	0.0097	12.0	8.70	3R5
BPCI001212103R6□00	3.6	30	100	0.0100	12.0	8.70	3R6
BPCI001212104R7□00	4.7	20,30	100	0.0110	11.0	8.40	4R7
BPCI001212105R8□00	5.8	30	100	0.0113	10.5	7.60	5R8
BPCI001212106R8□00	6.8	20,30	100	0.0115	10.0	7.10	6R8
BPCI001212107R5□00	7.5	20,30	100	0.0140	8.48	6.80	7R5
BPCI001212108R2□00	8.2	20,30	100	0.0160	8.30	6.70	8R2
BPCI00121210100□00	10	20,30	100	0.0170	8.20	6.95	100
BPCI00121210120□00	12	20,30	100	0.0185	7.04	6.20	120
BPCI00121210150□00	15	20,30	100	0.025	5.80	5.22	150
BPCI00121210220□00	22	20,30	100	0.029	5.12	4.95	220
BPCI00121210330□00	33	20,30	100	0.053	4.25	3.60	330
BPCI00121210470□00	47	20,30	100	0.063	3.60	3.45	470
BPCI00121210560□00	56	20,30	100	0.068	2.85	2.95	560
BPCI00121210680□00	68	20,30	100	0.093	2.76	2.85	680
BPCI00121210820□00	82	30	100	0.099	2.62	2.60	820
BPCI00121210850□00	85	30	100	0.120	2.60	2.60	850
BPCI00121210101□00	100	20	100	0.126	2.31	2.45	101
BPCI00121210121□00	120	20	100	0.154	2.05	2.20	121
BPCI00121210151□00	150	20	100	0.174	1.80	1.90	151
BPCI00121210181□00	180	20	100	0.191	1.66	1.86	181
BPCI00121210221□00	220	20	100	0.246	1.64	1.72	221
BPCI00121210331□00	330	20	100	0.386	1.28	1.28	331
BPCI00121210391□00	390	20	100	0.440	1.20	1.27	391
BPCI00121210471□00	470	20	100	0.471	1.06	1.25	471
BPCI00121210561□00	560	20	100	0.650	1.01	0.98	561
BPCI00121210681□00	680	20	100	0.730	0.83	0.96	681
BPCI00121210821□00	820	20	100	0.824	0.81	0.94	821
BPCI00121210102□00	1000	20	100	1.22	0.70	0.78	102
BPCI00121210122□00	1200	20	100	1.33	0.64	0.79	122
BPCI00121210152□00	1500	20	100	1.99	0.56	0.58	152

BPCI00121210182□00	1800	20	100	2.18	0.48	0.54	182
BPCI00121210222□00	2200	20	100	2.58	0.43	0.52	222
BPCI00121210332□00	3300	20	100	4.6	0.30	0.40	332

**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 25% 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
BPCI001212106R8□A0	6.8	20,30	100	0.0140	12.8	8.4	6R8
BPCI00121210100□A0	10	20,30	100	0.0183	11.5	7.5	100
BPCI00121210150□A0	15	20,30	100	0.0280	8.6	6.0	150
BPCI00121210330□A0	33	20	100	0.0450	5.5	4.2	330
BPCI00121210470□A0	47	20	100	0.0600	4.5	3.8	470
BPCI00121210560□A0	56	20	100	0.0700	4.0	3.4	560
BPCI00121210680□A0	68	20	100	0.0885	3.6	3.2	680
BPCI00121210101□A0	100	20	100	0.110	3.1	2.5	101
BPCI00121210221□A0	220	20	100	0.270	2.5	1.8	221
BPCI00121210271□A0	270	20	100	0.330	2.1	1.6	271
BPCI00121210301□A0	300	20	100	0.340	1.8	1.45	301
BPCI00121210331□A0	330	20	100	0.340	1.8	1.45	331
BPCI00121210681□A0	680	20,30	100	0.675	1.6	1.25	681
BPCI00121210821□A0	820	20	100	1.00	1.1	0.85	821

**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	Rated Current (A)Max	Marking
BPCI001212503R0□00	3.0	20,30	100	0.015	7.0	3R0
BPCI001212503R3□00	3.3	30	100	0.015	7.0	3R3
BPCI001212503R9□00	3.9	30	100	0.015	6.5	3R9
BPCI001212504R2□00	4.2	30	100	0.016	6.5	4R2
BPCI001212504R7□00	4.7	20,30	100	0.018	5.7	4R7
BPCI001212506R8□00	6.8	20,30	100	0.023	4.9	6R8
BPCI001212508R2□00	8.2	30	100	0.026	4.6	8R2
BPCI00121250100□00	10	20,30	100	0.028	4.5	100
BPCI00121250120□00	12	20,30	100	0.038	4.0	120
BPCI00121250150□00	15	20,30	100	0.050	3.2	150
BPCI00121250180□00	18	20,30	100	0.057	3.1	180
BPCI00121250220□00	22	20,30	100	0.066	2.9	220
BPCI00121250270□00	27	20,30	100	0.080	2.8	270
BPCI00121250330□00	33	20,30	100	0.097	2.7	330
BPCI00121250390□00	39	20,30	100	0.132	2.1	390
BPCI00121250470□00	47	20,30	100	0.15	1.9	470
BPCI00121250560□00	56	20,30	100	0.19	1.8	560
BPCI00121250680□00	68	20,30	100	0.22	1.5	680
BPCI00121250820□00	82	20,30	100	0.26	1.3	820
BPCI00121250101□00	100	20,30	100	0.308	1.2	101
BPCI00121250121□00	120	20,30	100	0.38	1.1	121
BPCI00121250151□00	150	20,30	100	0.53	0.95	151
BPCI00121250181□00	180	20,30	100	0.62	0.85	181
BPCI00121250221□00	220	20,30	100	0.70	0.8	221
BPCI00121250271□00	270	20,30	100	0.87	0.6	271
BPCI00121250331□00	330	20,30	100	0.99	0.5	331

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated Current : Based on inductance change ( $\Delta L/L_0$  : drop 10% Max.) @ ambient temp. 25°C and Based on temperature rise ( $\Delta T$  : 40°C Typ.)



## Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212504R7□A0	4.7	20,30	100	0.017	9.0	7.0	4R7
BPCI001212505R6□A0	5.6	20,30	100	0.020	8.0	6.1	5R6
BPCI00121250100□A0	10	20,30	100	0.0307	6.5	5.0	100
BPCI00121250150□A0	15	20,30	100	0.0425	5.2	4.6	150
BPCI00121250180□A0	18	20,30	100	0.0450	4.9	4.5	180
BPCI00121250220□A0	22	20,30	100	0.0583	4.5	4.3	220
BPCI00121250330□A0	33	20,30	100	0.0845	3.6	3.0	330
BPCI00121250470□A0	47	20,30	100	0.15	3.0	2.5	470
BPCI00121250151□A0	150	20,30	100	0.37	1.7	1.6	151

**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 10% 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	Rated Current (A)Max	Marking
BPCI001212802R4□00	2.4	30	100	0.015	6.5	2R4
BPCI001212602R7□00	2.7	30	100	0.015	6.5	2R7
BPCI001212603R3□00	3.3	20,30	100	0.017	6.0	3R3
BPCI001212603R9□00	3.9	30	100	0.018	5.7	3R9
BPCI001212604R7□00	4.7	20,30	100	0.020	5.0	4R7
BPCI001212606R8□00	6.8	30	100	0.023	4.3	6R8
BPCI001212608R2□00	8.2	20,30	100	0.024	4.2	8R2
BPCI00121260100□00	10	20,30	100	0.025	4.0	100
BPCI00121260120□00	12	20,30	100	0.027	3.5	120
BPCI00121260150□00	15	20,30	100	0.030	3.3	150
BPCI00121260180□00	18	20,30	100	0.034	3.0	180
BPCI00121260220□00	22	20,30	100	0.036	2.8	220
BPCI00121260270□00	27	20,30	100	0.051	2.3	270
BPCI00121260330□00	33	20,30	100	0.057	2.1	330
BPCI00121260390□00	39	20,30	100	0.068	2.0	390
BPCI00121260470□00	47	20,30	100	0.075	1.8	470
BPCI00121260560□00	56	20,30	100	0.11	1.7	560
BPCI00121260680□00	68	20,30	100	0.12	1.5	680
BPCI00121260820□00	82	20,30	100	0.14	1.4	820
BPCI00121260101□00	100	10,20	100	0.16	1.3	101
BPCI00121260121□00	120	10,20	100	0.17	1.1	121
BPCI00121260151□00	150	10,20	100	0.23	1.0	151
BPCI00121260181□00	180	10,20	100	0.29	0.9	181
BPCI00121260221□00	220	10,20	100	0.40	0.8	221
BPCI00121260271□00	270	10,20	100	0.46	0.75	271
BPCI00121260331□00	330	10,20	100	0.51	0.68	331
BPCI00121260391□00	390	10,20	100	0.69	0.65	391
BPCI00121260471□00	470	10,20	100	0.77	0.58	471
BPCI00121260561□00	560	10,20	100	0.86	0.54	561
BPCI00121260681□00	680	10,20	100	1.20	0.48	681
BPCI00121260821□00	820	10,20	100	1.34	0.43	821
BPCI00121260102□00	1000	10,20	100	1.53	0.40	102

**Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated Current : Based on inductance change ( $\Delta L/L_0$  : drop 10% Max.) @ ambient temp. 25°C and Based on temperature rise ( $\Delta T$  : 40°C Typ.)

## Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI001212801R0□00	1.0	30	100	0.0070	9.8	1R0
BPCI001212801R2□00	1.2	30	100	0.0070	9.8	1R2
BPCI001212802R2□00	2.2	20,30	100	0.0115	8.0	2R2
BPCI001212802R4□00	2.4	20,30	100	0.0115	8.0	2R4
BPCI001212802R5□00	2.5	20,30	100	0.0115	8.0	2R5
BPCI001212803R3□00	3.3	20,30	100	0.0135	7.5	3R3
BPCI001212803R5□00	3.5	20,30	100	0.0135	7.5	3R5
BPCI001212804R6□00	4.6	30	100	0.0158	6.8	4R6
BPCI001212804R7□00	4.7	20,30	100	0.0158	6.8	4R7
BPCI001212805R6□00	5.6	20,30	100	0.0176	6.6	5R6
BPCI001212806R1□00	6.1	20,30	100	0.0176	6.6	6R1
BPCI001212806R4□00	6.4	20,30	100	0.0190	6.3	6R4
BPCI001212806R8□00	6.8	20,30	100	0.0190	6.3	6R8
BPCI001212807R6□00	7.6	20,30	100	0.0200	5.9	7R6
BPCI00121280100□00	10	20,30	100	0.0216	5.4	100
BPCI00121280120□00	12	20,30	100	0.0243	4.9	120
BPCI00121280150□00	15	20,30	100	0.0270	4.5	150
BPCI00121280180□00	18	20,30	100	0.0392	3.9	180
BPCI00121280220□00	22	20,30	100	0.0432	3.6	220
BPCI00121280270□00	27	20,30	100	0.0459	3.4	270
BPCI00121280330□00	33	20,30	100	0.0648	3.0	330
BPCI00121280390□00	39	20,30	100	0.0729	2.75	390
BPCI00121280470□00	47	20,30	100	0.10	2.50	470
BPCI00121280560□00	56	20,30	100	0.11	2.35	560
BPCI00121280680□00	68	20,30	100	0.14	2.10	680
BPCI00121280750□00	75	20,30	100	0.15	2.00	750
BPCI00121280820□00	82	20,30	100	0.16	1.95	820
BPCI00121280101□00	100	10,20	100	0.22	1.70	101
BPCI00121280121□00	120	10,20	100	0.25	1.60	121
BPCI00121280151□00	150	10,20	100	0.28	1.42	151
BPCI00121280181□00	180	10,20	100	0.35	1.30	181
BPCI00121280201□00	200	20	100	0.39	1.16	201

# SMD Shielded Power Inductors

BPCI Series



BPCI00121280221□00	220	10,20	100	0.39	1.16	221
BPCI00121280271□00	270	10,20	100	0.56	1.06	271
BPCI00121280331□00	330	10,20	100	0.64	0.95	331
BPCI00121280391□00	390	10,20	100	0.70	0.88	391

**Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated Current : Based on inductance change ( $\Delta L/L_0$  : drop 10% Max.) @ ambient temp. 25°C and Based on temperature rise ( $\Delta T$  : 40°C Typ.)

## Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC ( $\Omega$ )Max	Rated Current (A)Max	Marking
BPCI00121280471□00	470	10,20	100	0.98	0.79	471
BPCI00121280561□00	560	10,20	100	1.07	0.73	561
BPCI00121280681□00	680	10,20	100	1.46	0.67	681
BPCI00121280821□00	820	10,20	100	1.64	0.60	821
BPCI00121280102□00	1000	10,20	100	1.82	0.55	102
BPCI00121280152□00	1500	10,20	10	2.48	0.45	152
BPCI00121280202□00	2000	10,20	10	3.0	0.42	202
BPCI00121280242□00	2400	10,20	10	3.5	0.40	242
BPCI00121280252□00	2500	10,20	10	3.5	0.40	252
BPCI00121280332□00	3300	10,20	10	5.2	0.35	332
BPCI00121280472□00	4700	10,20	10	5.7	0.30	472
BPCI00121280103□00	10000	10	10	19.2	0.20	103

**Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated Current : Based on inductance change ( $\Delta L/L_0$  : drop 10% Max.) @ ambient temp. 25°C and Based on temperature rise ( $\Delta T$  : 40°C Typ.)

## Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212801R0□A0	1.0	30	100	0.0055	18	15	1R0
BPCI001212802R2□A0	2.2	30	100	0.0062	16	13	2R2
BPCI001212803R3□A0	3.3	30	100	0.0135	13.5	7.5	3R3
BPCI001212804R5□A0	4.5	20,30	100	0.0158	11.5	6.8	4R5
BPCI001212804R7□A0	4.7	20,30	100	0.0158	11.5	6.8	4R7
BPCI001212805R6□A0	5.6	20,30	100	0.0168	10.5	6.7	5R6
BPCI001212806R5□A0	6.5	20,30	100	0.0176	9.5	6.6	6R5
BPCI001212806R8□A0	6.8	20,30	100	0.0176	9.5	6.6	6R8
BPCI00121280100□A0	10	20,30	100	0.216	7.8	5.4	100
BPCI00121280120□A0	12	20,30	100	0.0243	7.3	4.9	120
BPCI00121280130□A0	13	20,30	100	0.0243	7.3	4.9	130
BPCI00121280150□A0	15	20,30	100	0.0270	6.5	4.5	150
BPCI00121280180□A0	18	20,30	100	0.0392	6.0	3.9	180
BPCI00121280220□A0	22	20,30	100	0.0432	5.3	3.6	220
BPCI00121280270□A0	27	20,30	100	0.0531	4.8	3.3	270
BPCI00121280330□A0	33	20,30	100	0.0648	4.3	3.0	330
BPCI00121280390□A0	39	20,30	100	0.071	4.1	2.8	390
BPCI00121280470□A0	47	20,30	100	0.10	3.8	2.5	470
BPCI00121280560□A0	56	20,30	100	0.11	3.4	2.35	560
BPCI00121280680□A0	68	20,30	100	0.14	3.1	2.10	680
BPCI00121280820□A0	82	20,30	100	0.16	2.7	1.95	820
BPCI00121280101□A0	100	20,30	100	0.22	2.5	1.70	101
BPCI00121280121□A0	120	20,30	100	0.25	2.3	1.60	121
BPCI00121280151□A0	150	20,30	100	0.28	2.0	1.42	151
BPCI00121280181□A0	180	20,30	100	0.35	1.9	1.30	181
BPCI00121280201□A0	200	20,30	100	0.37	1.8	1.23	201
BPCI00121280221□A0	220	20,30	100	0.39	1.7	1.16	221
BPCI00121280271□A0	270	20,30	100	0.51	1.6	1.06	271
BPCI00121280281□A0	280	20,30	100	0.51	1.6	1.06	281
BPCI00121280331□A0	330	20,30	100	0.64	1.4	0.95	331
BPCI00121280391□A0	390	20,30	100	0.70	1.3	0.88	391
BPCI00121280471□A0	470	20,30	100	0.98	1.1	0.79	471

BPCI00121280561□A0	560	20,30	100	1.03	1.05	0.75	561
BPCI00121280681□A0	680	20	100	1.10	1.0	0.70	681
BPCI00121280801□A0	800	20	100	1.29	0.9	0.67	801
BPCI00121280821□A0	820	20	100	1.29	0.9	0.67	821

**Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 10% 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

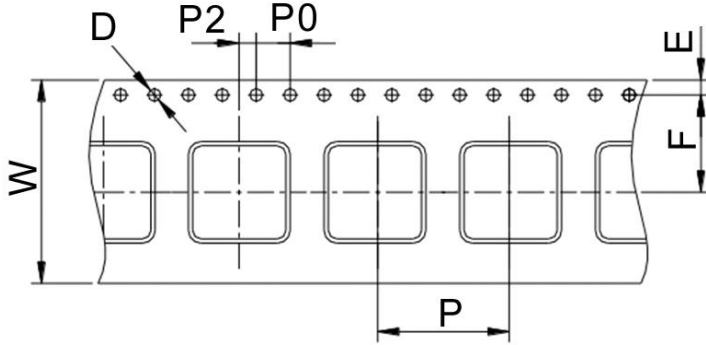
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI00121280102□A0	1000	20	100	1.53	0.85	0.64	102
BPCI00121280112□A0	1100	20	100	1.66	0.82	0.62	112
BPCI00121280122□A0	1200	20	100	1.80	0.80	0.60	122
BPCI00121280132□A0	1300	20	100	1.93	0.76	0.58	132
BPCI00121280142□A0	1400	10,20	100	2.1	0.73	0.56	142
BPCI00121280152□A0	1500	20	100	2.2	0.70	0.55	152
BPCI00121280182□A0	1800	20	10	2.5	0.65	0.50	182
BPCI00121280202□A0	2000	20	10	2.7	0.62	0.48	202
BPCI00121280222□A0	2200	20	10	2.9	0.59	0.46	222
BPCI00121280242□A0	2400	20	10	3.2	0.58	0.45	242
BPCI00121280282□A0	2800	20	10	3.6	0.53	0.42	282
BPCI00121280332□A0	3300	20	10	4.1	0.48	0.39	332
BPCI00121280392□A0	3900	20	10	4.7	0.45	0.37	392
BPCI00121280472□A0	4700	20	10	5.3	0.42	0.36	472
BPCI00121280622□A0	6200	10,20	10	7.1	0.33	0.30	622
BPCI00121280682□A0	6800	20	10	7.2	0.30	0.28	682
BPCI00121280103□A0	10000	20	10	14.2	0.15	0.15	103

**Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%**

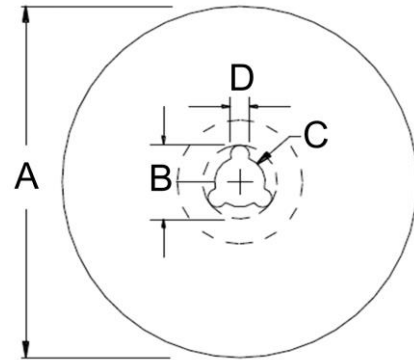
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

## 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	
BPCI00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCI00101040	24	1.5	1.75	11.5	16	4	2	330	20	13	2	900
BPCI00121250	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121260	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121280	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121210	24	1.5	1.75	11.5	24	4	2	330	20	13	2	250

### For More Information:

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