

BPCA Series



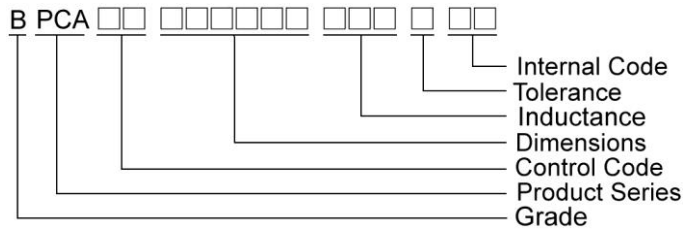
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded power inductor

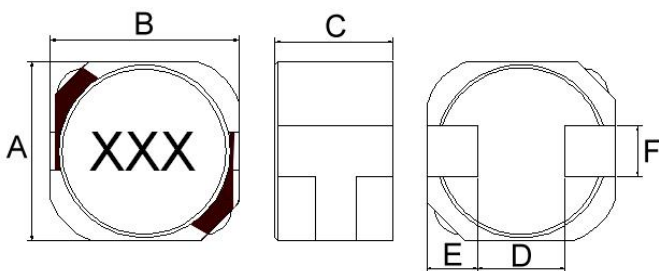
Applications

- Thin-screen TVs
- LCDs
- AV equipment
- STBs
- LED lights

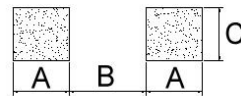
Product Identification



Shape and Dimensions



Recommended Pattern

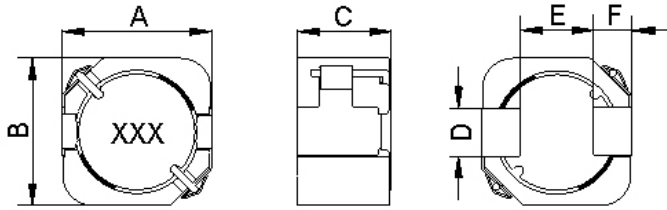


Dimensions in mm

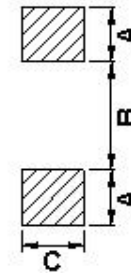
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCA00060645	6.0±0.2	6.3±0.2	4.6±0.3	2.9	1.7±0.1	2.0±0.1	2.1	2.8	2.2
BPCA00070745	7.0±0.2	7.4±0.2	4.5±0.3	3.4	2.0±0.1	2.0±0.1	2.4	3.3	2.2

SMD Shielded Power Inductors - BPCA Series

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCA00101065	10.3±0.3	10.0±0.3	6.5Max	3.5	4.5	2.65	3.3	4.3	3.7
BPCA00121280	12.5±0.4	12.3±0.4	8.0Max	4.0	6.3	3.15	4.5	6.0	4.3

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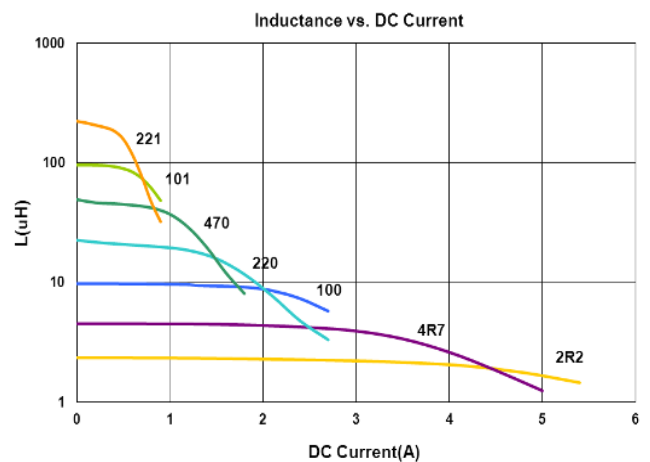
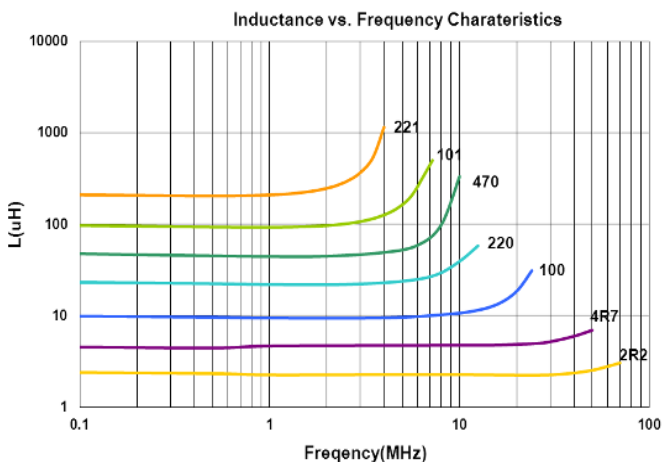
SMD Shielded Power Inductors - BPCA Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A) Typ(Max)	Irms (A)	Marking
BPCA000606451R0□00	1.0	30	100	0.0143	6.7(6.0)	4.8	1R0
BPCA000606451R5□00	1.5	30	100	0.0169	5.5(5.2)	4.5	1R5
BPCA000606452R2□00	2.2	30	100	0.0195	4.2(3.6)	4.1	2R2
BPCA000606453R3□00	3.3	30	100	0.0247	3.5(3.2)	3.7	3R3
BPCA000606454R7□00	4.7	30	100	0.0299	3.1(2.5)	3.3	4R7
BPCA000606456R8□00	6.8	30	100	0.0351	2.8(2.0)	3.1	6R8
BPCA00060645100□00	10	20	100	0.042	2.1(1.7)	2.6	100
BPCA00060645150□00	15	20	100	0.072	1.7(1.4)	2.0	150
BPCA00060645220□00	22	20	100	0.09	1.4(1.1)	1.8	220
BPCA00060645330□00	33	20	100	0.12	1.1(0.9)	1.6	330
BPCA00060645470□00	47	20	100	0.156	0.97(0.78)	1.4	470
BPCA00060645680□00	68	20	100	0.24	0.81(0.65)	1.1	680
BPCA00060645101□00	100	20	100	0.384	0.61(0.55)	0.86	101
BPCA00060645151□00	150	20	100	0.576	0.53(0.46)	0.72	151
BPCA00060645221□00	220	20	100	0.864	0.47(0.36)	0.57	221
BPCA00060645331□00	330	20	100	1.104	0.36(0.28)	0.49	331
BPCA00060645471□00	470	20	100	1.56	0.28(0.25)	0.41	471

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

- Operating temperature range –40°C ~105°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- The actual use current is suggested not to be out of Isat*80%
- I rms for a 40°C temprature rise from 25°C ambient.
- Measure Equipment :
L : HP4284+42841A, 100kHz/ 1V
RDC : Chroma 16502
Isat : HP4284+42841A



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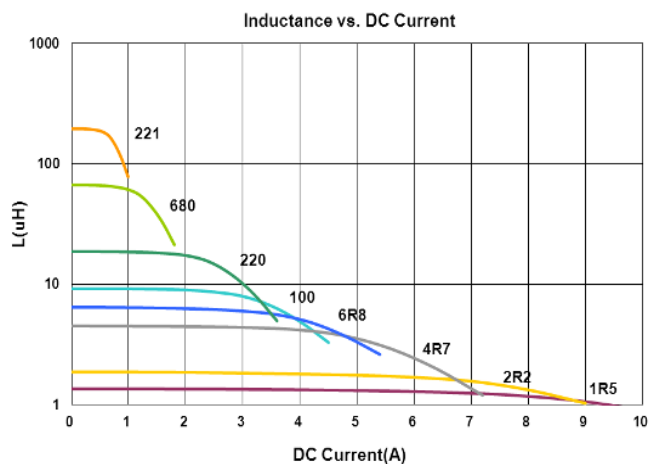
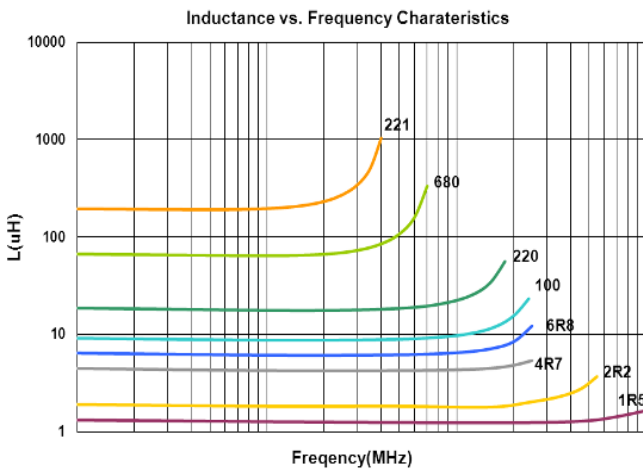
SMD Shielded Power Inductors - BPCA Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A) Typ(Max)	Irms (A)	Marking
BPCA000707451R0□00	1.0	30	100	0.0117	9.3(7.6)	6.5	1R0
BPCA000707451R5□00	1.5	30	100	0.013	7.8(6.2)	5.4	1R5
BPCA000707452R2□00	2.2	30	100	0.0169	7.3(6.0)	5.1	2R2
BPCA000707453R3□00	3.3	30	100	0.0208	5.8(4.6)	4.8	3R3
BPCA000707454R7□00	4.7	30	100	0.0234	4.8(4.0)	4.1	4R7
BPCA000707456R8□00	6.8	30	100	0.0264	3.6(3.0)	3.9	6R8
BPCA00070745100□00	10	20	100	0.0396	3.2(2.6)	3.1	100
BPCA00070745150□00	15	20	100	0.066	2.4(2.0)	2.6	150
BPCA00070745220□00	22	20	100	0.0828	2.1(1.6)	2.2	220
BPCA00070745330□00	33	20	100	0.116	1.6(1.3)	1.8	330
BPCA00070745470□00	47	20	100	0.156	1.3(1.1)	1.7	470
BPCA00070745680□00	68	20	100	0.204	1.08(0.95)	1.5	680
BPCA00070745101□00	100	20	100	0.312	0.9(0.8)	1.05	101
BPCA00070745151□00	150	20	100	0.516	0.8(0.65)	0.95	151
BPCA00070745221□00	220	20	100	0.66	0.7(0.54)	0.75	221
BPCA00070745331□00	330	20	100	0.96	0.55(0.45)	0.58	331
BPCA00070745471□00	470	20	100	1.44	0.45(0.37)	0.46	471

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
- The actual use current is suggested not to be out of Isat*80%
- I rms for a 40°C temprature rise from 25°C ambient.
- Measure Equipment :
 L : HP4284+42841A, 100kHz/ 1V
 RDC : Chroma 16502
 Isat : HP4284+42841A



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SMD Shielded Power Inductors - BPCA Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCA001010652R2□A0	2.2	30	100kHz,0.25V	7.1±30%	11.00	8.50	2R2
BPCA001010653R3□A0	3.3	30	100kHz,0.25V	8.5±30%	8.40	8.10	3R3
BPCA001010654R7□A0	4.7	30	100kHz,0.25V	11±30%	8.00	7.00	4R7
BPCA001010656R8□A0	6.8	30	100kHz,0.25V	13±30%	6.50	6.60	6R8
BPCA00101065100□A0	10	20,30	100kHz,0.25V	17±20%	5.00	5.80	100
BPCA00101065150□A0	15	20,30	100kHz,0.25V	30±20%	4.40	4.10	150
BPCA00101065220□A0	22	20,30	100kHz,0.25V	43±20%	3.60	3.30	220
BPCA00101065330□A0	33	20,30	100kHz,0.25V	61±20%	3.10	2.90	330
BPCA00101065470□A0	47	20,30	100kHz,0.25V	74±20%	2.35	2.60	470
BPCA00101065680□A0	68	20,30	100kHz,0.25V	91±20%	2.05	2.40	680
BPCA00101065101□A0	100	20,30	100kHz,0.25V	150±20%	1.65	1.90	101
BPCA00101065151□A0	150	20,30	100kHz,0.25V	240±20%	1.35	1.50	151
BPCA00101065221□A0	220	20,30	100kHz,0.25V	350±20%	1.10	1.20	221
BPCA00101065331□A0	330	20,30	100kHz,0.25V	445±20%	0.90	1.10	331
BPCA00101065471□A0	470	20,30	100kHz,0.25V	600±20%	0.75	0.90	471

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
- Measure Equipment :
L: HP4284+42841A,
RDC: Chroma 16502
Isat:WK3255BQ+ WK3265B
I rms: WK3255BQ+ WK3265B

SMD Shielded Power Inductors - BPCA Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCA001212801R5□A0	1.5	30	100kHz,0.25V	5.5±30%	23.50	10.50	1R5
BPCA001212802R2□A0	2.2	30	100kHz,0.25V	6.3±30%	20.00	9.70	2R2
BPCA001212803R3□A0	3.3	30	100kHz,0.25V	7.7±30%	15.00	9.50	3R3
BPCA001212804R7□A0	4.7	30	100kHz,0.25V	8.7±30%	13.00	9.00	4R7
BPCA001212806R8□A0	6.8	30	100kHz,0.25V	10±20%	9.70	8.50	6R8
BPCA00121280100□A0	10	20,30	100kHz,0.25V	12±20%	9.20	7.70	100
BPCA00121280150□A0	15	20,30	100kHz,0.25V	24±20%	7.40	5.10	150
BPCA00121280220□A0	22	20,30	100kHz,0.25V	27±20%	5.80	4.50	220
BPCA00121280330□A0	33	20,30	100kHz,0.25V	52±20%	4.50	3.60	330
BPCA00121280470□A0	47	20,30	100kHz,0.25V	66±20%	4.20	3.20	470
BPCA00121280680□A0	68	20,30	100kHz,0.25V	90±20%	3.60	2.70	680
BPCA00121280101□A0	100	20,30	100kHz,0.25V	110±20%	2.90	2.60	101
BPCA00121280151□A0	150	20,30	100kHz,0.25V	170±20%	2.40	2.10	151
BPCA00121280221□A0	220	20,30	100kHz,0.25V	280±20%	1.95	1.60	221
BPCA00121280331□A0	330	20,30	100kHz,0.25V	410±20%	1.60	1.25	331
BPCA00121280471□A0	470	20,30	100kHz,0.25V	590±20%	1.30	1.10	471

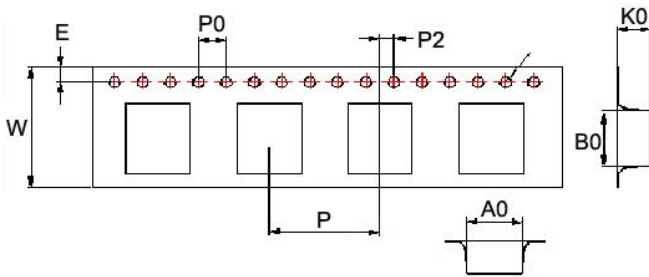
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- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
L: HP4284+42841A,
RDC: Chroma 16502
Isat:WK3255BQ+ WK3265B
I rms: WK3255BQ+ WK3265B

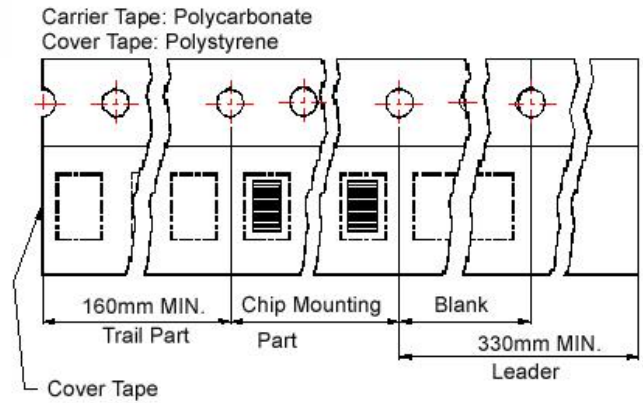
SMD Shielded Power Inductors - BPCA Series

Packaging Specifications

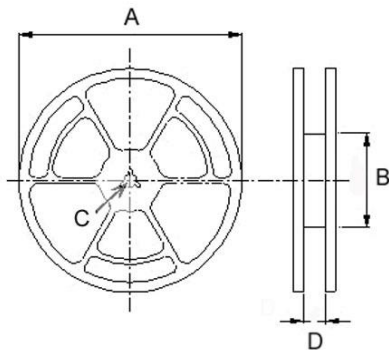
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	
BPCA00060645	6.9	6.3	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
BPCA00070745	7.7	7.35	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
BPCA00101065	10.4	10.65	6.7	1.50	1.75	24	16	4	2	330	100	13	24	500
BPCA00121280	12.8	13	8.7	1.50	1.75	24	16	4	2	330	100	13	24	400