

BPSC Series

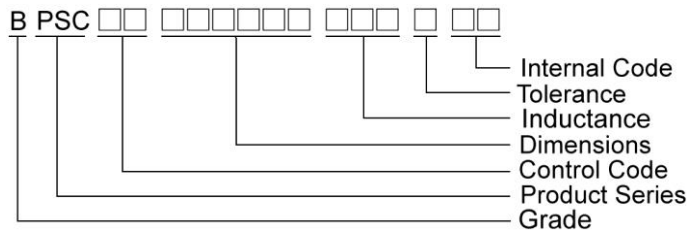
Features

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

Applications

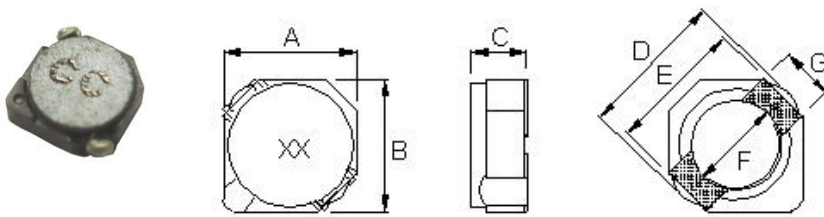
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

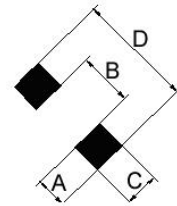


Shape and Dimensions

BPSC00030312/030316/030320



Recommended Pattern

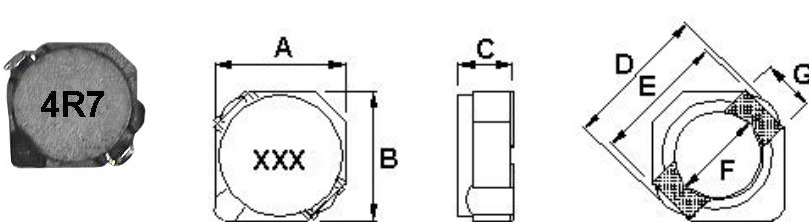


Dimension in mm

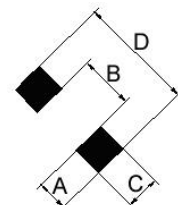
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00030316	3.2 ⁺⁰	3.2 ⁺⁰	1.55 ⁺⁰	4.5 ⁺⁰	3.3	2.1	1.0	1.3	1.7	1.3	4.3
BPSC00303020	3.2 ⁺⁰	3.2 ⁺⁰	2.0 ⁺⁰	4.5 ⁺⁰	3.3	2.1	1.0	1.3	1.7	1.3	4.3

Shape and Dimensions

BPSC00040412



Recommended Pattern



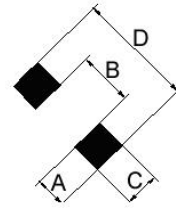
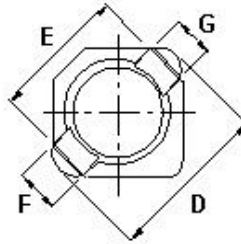
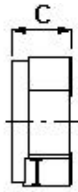
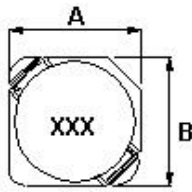
Dimension in mm

TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00040412	4 ⁺⁰	4 ⁺⁰	1.2 ⁺⁰	5.2 ⁺⁰	4.4	2.8	1.1	1.4	2.4	1.5	5.2

SMD Shielded Power Inductors - BPSC Series

Shape and Dimensions

BPSC00040418

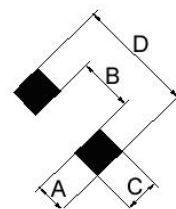
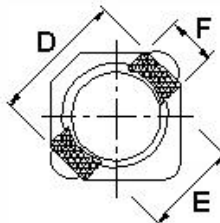
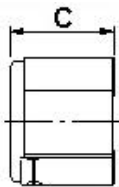
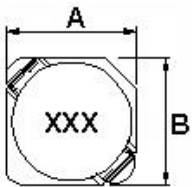


Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00040418	4 ⁺⁰	4 ⁺⁰	1.8 ⁺⁰	5.2 ⁺⁰	4.4Typ	1.4 ⁺⁰	1.1Typ	1.4	2.4	1.5	5.2

Shape and Dimensions

BPSC00404030



Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPSC00404030	4 ⁺⁰	4 ⁺⁰	3 ⁺⁰	4.4	2.8	1.1	1.4	2.4	1.5	5.2

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC00030316R47□00	0.47	30	100 kHz, 1 V	0.04	2.00(2.80)		AO
BPSC000303161R5□00	1.5	30	100 kHz, 1 V	0.063	1.40(1.80)	2	BF
BPSC000303161R8□00	1.8	30	100 kHz, 1 V	0.075	1.30(1.70)	1.8	BI
BPSC000303162R2□00	2.2	30	100 kHz, 1 V	0.094	1.20(1.60)	1.6	CC
BPSC000303162R7□00	2.7	30	100 kHz, 1 V	0.106	1.10(1.40)	1.4	CH
BPSC000303163R3□00	3.3	30	100 kHz, 1 V	0.125	0.95(1.20)	1.24	DD
BPSC000303163R9□00	3.9	30	100 kHz, 1 V	0.138	0.92(1.10)	1.12	DJ
BPSC000303164R1□00	4.1	20,30	100 kHz, 1 V	0.169	0.80(1.00)	1	EA
BPSC000303164R7□00	4.7	20,30	100 kHz, 1 V	0.169	0.80(1.00)	1	EH
BPSC000303165R6□00	5.6	20,30	100 kHz, 1 V	0.188	0.76(0.95)	0.98	FG
BPSC000303166R8□00	6.8	20,30	100 kHz, 1 V	0.213	0.71(0.88)	0.92	GI
BPSC000303168R2□00	8.2	20,30	100 kHz, 1 V	0.281	0.64(0.80)	0.8	IC
BPSC00030316100□00	10	20,30	100 kHz, 1 V	0.294	0.57(0.72)	0.76	KA
BPSC00030316120□00	12	20,30	100 kHz, 1 V	0.394	0.52(0.65)	0.64	QA

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A
 - RDC : Chroma 16502
 - Isat : HP4284+42841A or WK3260B+WK3265B
 - I rms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000303202R2□LD	2.2	20,30	100 kHz, 1V	0.041	0.85(1.10)	2.3	CC
BPSC000303203R3□LD	3.3	20,30	100 kHz, 1V	0.054	0.75(0.95)	2.1	DD
BPSC000303204R7□LD	4.7	20,30	100 kHz, 1V	0.078	0.63(0.78)	1.65	EH
BPSC000303206R8□LD	6.8	20,30	100 kHz, 1V	0.106	0.52(0.65)	1.32	GI
BPSC00030320100□LD	10	20,30	100 kHz, 1V	0.18	0.43(0.53)	1	KA
BPSC00030320150□LD	15	20,30	100 kHz, 1V	0.22	0.35(0.45)	0.8	MA
BPSC00030320220□LD	22	20,30	100 kHz, 1V	0.32	0.30(0.36)	0.68	LA
BPSC00030320330□LD	33	20,30	100 kHz, 1V	0.46	0.24(0.31)	0.56	NA
BPSC00030320390□LD	39	20,30	100 kHz, 1V	0.6	0.21(0.28)		PA
BPSC00030320470□LD	47	20,30	100 kHz, 1V	0.66	0.19(0.24)	0.48	OA

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

- Operating temperature range $-30^{\circ}\text{C} \sim 100^{\circ}\text{C}$ (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A
 RDC : Chroma 16502
 Isat : HP4284+42841A or WK3260B+WK3265B
 Irms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000303201R5□HP	1.5	30	100kHz,1V	0.05	1.90(2.40)	2.2	BF
BPSC000303201R7□HP	1.7	20,30	100kHz,1V	0.05	1.85(2.40)	2.2	BH
BPSC000303202R2□HP	2.2	20,30	100kHz,1V	0.06	1.60(2.30)	1.9	CC
BPSC000303203R3□HP	3.3	20,30	100kHz,1V	0.097	1.45(1.80)	1.55	DD
BPSC000303204R7□HP	4.7	20,30	100kHz,1V	0.14	1.00(1.50)	1.2	EH
BPSC000303206R3□HP	6.3	20,30	100kHz,1V	0.18	0.96(1.30)	1.15	GD
BPSC000303206R8□HP	6.8	20,30	100kHz,1V	0.195	0.95(1.20)	1.1	GI
BPSC00030320100□HP	10	20,30	100kHz,1V	0.285	0.85(1.00)	0.9	KA
BPSC00030320150□HP	15	20,30	100kHz,1V	0.41	0.67(0.83)	0.64	MA
BPSC00030320220□HP	22	20,30	100kHz,1V	0.65	0.50(0.67)	0.6	LA

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

- Operating temperature range $-30^{\circ}\text{C} \sim 100^{\circ}\text{C}$ (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A
 - RDC : Chroma 16502
 - Isat : HP4284+42841A or WK3260B+WK3265B
 - Irms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC000404122R7□00	2.7	30	100 kHz, 1 V	0.078	0.53	1.82	2R7
BPSC000404124R7□00	4.7	20,30	100 kHz, 1 V	0.123	0.4	1.38	4R7
BPSC000404126R8□00	6.8	30	100 kHz, 1 V	0.18	0.34	1.05	6R8
BPSC000404128R2□00	8.2	30	100 kHz, 1 V	0.204	0.32	0.93	8R2
BPSC00040412100□00	10	20,30	100 kHz, 1 V	0.24	0.28	0.9	100
BPSC00040412120□00	12	20,30	100 kHz, 1 V	0.276	0.25	0.81	120
BPSC00040412150□00	15	20,30	100 kHz, 1 V	0.372	0.23	0.68	150
BPSC00040412180□00	18	20,30	100 kHz, 1 V	0.468	0.21	0.58	180
BPSC00040412220□00	22	20,30	100 kHz, 1 V	0.54	0.19	0.53	220
BPSC00040412270□00	27	20,30	100 kHz, 1 V	0.726	0.17	0.48	270
BPSC00040412330□00	33	20,30	100 kHz, 1 V	0.822	0.15	0.41	330
BPSC00040412390□00	39	20,30	100 kHz, 1 V	0.942	0.14	0.4	390

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A
 - RDC : Chroma 16502
 - Rated current : HP4284+42841A or WK3260B+WK3265B
 - I rms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC00040412R60□HP	0.6	30	100 kHz, 1 V	0.059	2.9	1.8	R60
BPSC000404121R2□HP	1.2	30	100 kHz, 1 V	0.082	2	1.7	1R2
BPSC000404121R5□HP	1.5	30	100 kHz, 1 V	0.104	1.85	1.45	1R5
BPSC000404122R2□HP	2.2	30	100 kHz, 1 V	0.143	1.6	1.15	2R2
BPSC000404123R3□HP	3.3	30	100 kHz, 1 V	0.182	1.25	0.95	3R3
BPSC000404124R7□HP	4.7	30	100 kHz, 1 V	0.2	1.2	0.9	4R7
BPSC000404126R8□HP	6.8	30	100 kHz, 1 V	0.377	0.85	0.7	6R8
BPSC00040412100□HP	10	20,30	100 kHz, 1 V	0.413	0.8	0.6	100
BPSC00040412120□HP	12	20,30	100 kHz, 1 V	0.585	0.64	0.48	120
BPSC00040412150□HP	15	20,30	100 kHz, 1 V	0.653	0.58	0.45	150
BPSC00040412180□HP	18	20,30	100 kHz, 1 V	0.888	0.52	0.4	180
BPSC00040412220□HP	22	20,30	100 kHz, 1 V	0.925	0.53	0.33	220

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
L : Agilent/ E4980 or HP4284A
RDC : Chroma 16502
Rated current : HP4284+42841A or WK3260B+WK3265B
I rms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Marking
BPSC000404181R0□S1	1.0	30	100kHz,0.1V	0.04	1.6	1R0
BPSC000404181R5□S1	1.5	30	100kHz,0.1V	0.052	1.55	1R5
BPSC000404182R2□S1	2.2	30	100kHz,0.1V	0.072	1.2	2R2
BPSC000404183R3□S1	3.3	30	100kHz,0.1V	0.085	1.1	3R3
BPSC000404184R7□S1	4.7	20,30	100kHz,0.1V	0.105	0.9	4R7
BPSC000404185R6□S1	5.6	30	100kHz,0.1V	0.135	0.8	5R6
BPSC000404186R8□S1	6.8	20,30	100kHz,0.1V	0.17	0.73	6R8
BPSC000404188R2□S1	8.2	20,30	100kHz,0.1V	0.21	0.55	8R2
BPSC00040418100□S1	10	20,30	100kHz,0.1V	0.21	0.55	100
BPSC00040418150□S1	15	30	100kHz,0.1V	0.295	0.45	150
BPSC00040418220□S1	22	20,30	100kHz,0.1V	0.43	0.4	220
BPSC00040418330□S1	33	30	100kHz,0.1V	0.675	0.32	330
BPSC00040418101□S1	100	30	100kHz,0.1V	2.75	0.13	101

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Rated current : DC current that will cause L drop approximately 35% over its nominal value or DC current cause the temperature rising approximately 40°C, whichever is lower.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
L : Agilent/ E4980 or HP4284A
RDC : Chroma 16502
Rated current : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC000404301R0□00	1.0	30	100 kHz, 1 V	0.045	2.8	2.5	1R0
BPSC000404303R3□00	3.3	30	100 kHz, 1 V	0.0721	2	1.85	3R3
BPSC000404304R7□00	4.7	30	100 kHz, 1 V	0.0883	1.65	1.62	4R7
BPSC000404306R8□00	6.8	30	100 kHz, 1 V	0.119	1.24	1.32	6R8
BPSC00040430100□00	10	30	100 kHz, 1 V	0.145	1.05	1.18	100
BPSC00040430150□00	15	30	100 kHz, 1 V	0.213	0.9	1.02	150
BPSC00040430220□00	22	30	100 kHz, 1 V	0.335	0.76	0.74	220
BPSC00040430330□00	33	30	100 kHz, 1 V	0.481	0.58	0.63	330
BPSC00040430470□00	47	20,30	100 kHz, 1 V	0.599	0.48	0.56	470

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A
 RDC : Chroma 16502
 Rated current : HP4284+42841A or WK3260B+WK3265B
 I rms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC00040430100□LD	10	30	100 kHz, 1 V	0.095	0.5	1.52	100
BPSC00040430120□LD	12	30	100 kHz, 1 V	0.1	0.45	1.48	120
BPSC00040430150□LD	15	30	100 kHz, 1 V	0.115	0.4	1.44	150
BPSC00040430180□LD	18	30	100 kHz, 1 V	0.125	0.35	1.37	180
BPSC00040430220□LD	22	30	100 kHz, 1 V	0.145	0.33	1.28	220
BPSC00040430270□LD	27	30	100 kHz, 1 V	0.175	0.29	1.18	270
BPSC00040430330□LD	33	30	100 kHz, 1 V	0.215	0.28	1.15	330
BPSC00040430390□LD	39	30	100 kHz, 1 V	0.225	0.25	1	390
BPSC00040430470□LD	47	30	100 kHz, 1 V	0.305	0.23	0.81	470
BPSC00040430560□LD	56	30	100 kHz, 1 V	0.325	0.2	0.76	560
BPSC00040430680□LD	68	30	100 kHz, 1 V	0.47	0.185	0.6	680
BPSC00040430820□LD	82	30	100 kHz, 1 V	0.54	0.172	0.58	820
BPSC00040430101□LD	100	30	100 kHz, 1 V	0.61	0.16	0.52	101
BPSC00040430121□LD	120	30	100 kHz, 1 V	0.755	0.136	0.5	121
BPSC00040430151□LD	150	30	100 kHz, 1 V	0.88	0.124	0.48	151
BPSC00040430181□LD	180	30	100 kHz, 1 V	1.13	0.119	0.42	181
BPSC00040430221□LD	220	30	100 kHz, 1 V	1.27	0.116	0.36	221

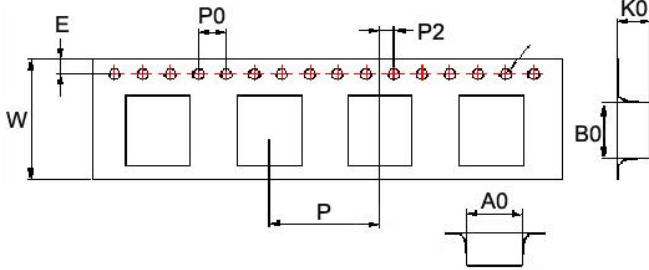
Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A
 - RDC : Chroma 16502
 - Rated current : HP4284+42841A or WK3260B+WK3265B
 - I rms : HP4284+42841A or WK3260B+WK3265B

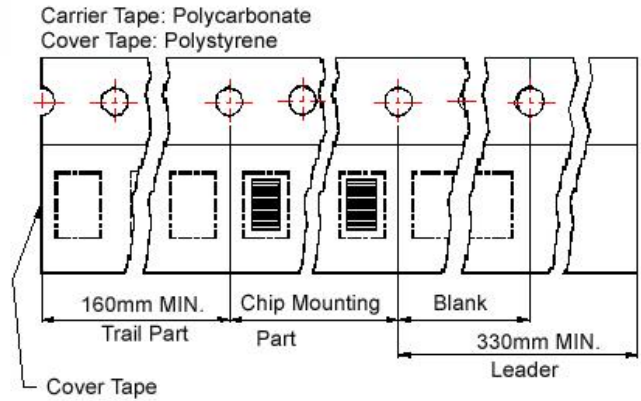
SMD Shielded Power Inductors - BPSC Series

Packaging Specifications

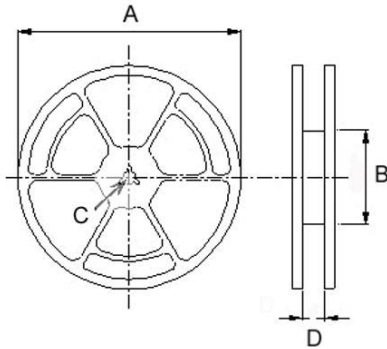
Tape Dimensions



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	
BPSC00030316	3.35	3.35	1.7	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00030320	3.5	3.5	2.1	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040412	4.2	4.2	1.5	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040418	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040430	4.2	4.2	3.2	1.55	1.75	12	8	4	2	178	60	13	13.2	500

BPSC Series

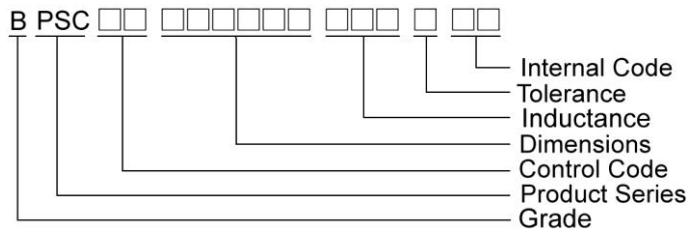
Features

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

Applications

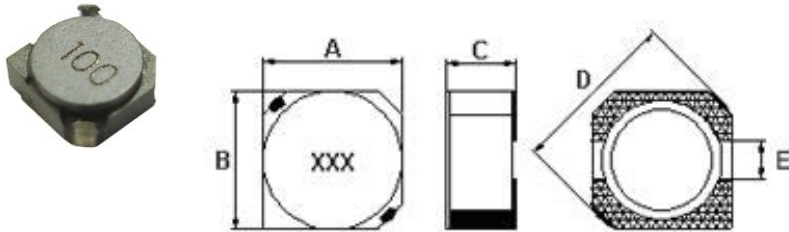
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

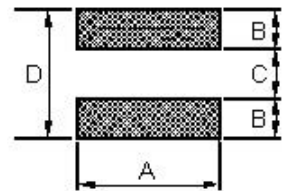


Shape and Dimensions

BPSC00040418



Recommended Pattern

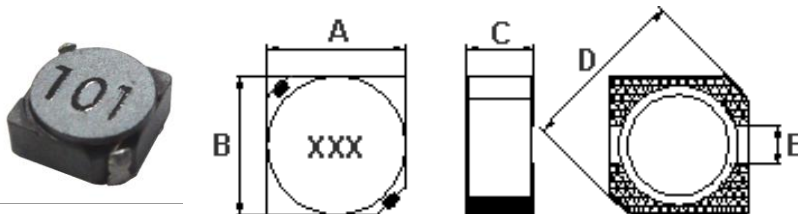


Dimensions in mm

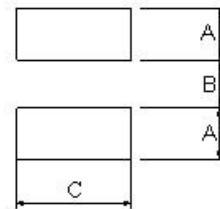
TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPSC00404018	4 ⁺⁰	4 ⁺⁰	1.8 ⁺⁰	5.2 ⁺⁰	1.0	4.6	1.6	1.4	4.6

Shape and Dimensions

BPSC00050520~050540



Recommended Pattern



Dimension in mm

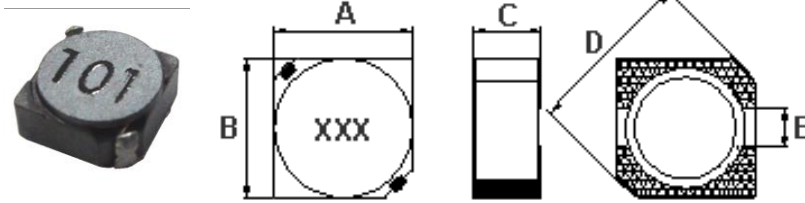
TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00050520	4.7±0.3	4.7±0.3	2.0 ⁺⁰	6.9 ⁺⁰	1.5	1.9	1.5	5.3
BPSC00050530	4.7±0.3	4.7±0.3	3.0 ⁺⁰	6.9 ⁺⁰	1.5	1.9	1.5	5.3
BPSC00050540	4.7±0.3	4.7±0.3	4 ⁺⁰	6.9 ⁺⁰	1.5	1.9	1.5	5.3

SMD Shielded Power Inductors - BPSC Series

Shape and Dimensions

Recommended Pattern

BPSC00060620~070740



Dimension in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00060620	5.7±0.3	5.7±0.3	2.0 ⁺⁰	8.2 ⁺⁰	2.0	2.15	2.0	6.3
BPSC00060630	5.7±0.3	5.7±0.3	3.0 ⁺⁰	8.2 ⁺⁰	2.0	2.15	2.0	6.3
BPSC00070730	6.7±0.3	6.7±0.3	3.0 ⁺⁰	9.5 ⁺⁰	2.0	2.65	2.0	7.3
BPSC00070740	7 ⁺⁰	7 ⁺⁰	4 ⁺⁰	9.5 ⁺⁰	2.0	2.65	2.0	7.3

SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000404181R0□S0	1.0	30	100 kHz,0.1 V	0.04	1.35(1.70)	1R0
BPSC000404181R5□S0	1.5	30	100 kHz,0.1 V	0.052	1.25(1.60)	1R5
BPSC000404182R2□S0	2.2	30	100 kHz,0.1 V	0.072	1.00(1.30)	2R2
BPSC000404183R3□S0	3.3	20,30	100 kHz,0.1 V	0.085	0.88(1.10)	3R3
BPSC000404183R6□S0	3.6	30	100 kHz,0.1 V	0.09	0.74(0.93)	3R6
BPSC000404184R7□S0	4.7	20,30	100 kHz,0.1 V	0.105	0.72(0.90)	4R7
BPSC000404186R8□S0	6.8	20,30	100 kHz,0.1 V	0.17	0.61(0.74)	6R8
BPSC00040418100□S0	10	20,30	100 kHz,0.1 V	0.21	0.55(0.60)	100
BPSC00040418150□S0	15	20,30	100 kHz,0.1 V	0.295	0.45(0.52)	150
BPSC00040418220□S0	22	20,30	100 kHz,0.1 V	0.43	0.32(0.40)	220
BPSC00040418270□S0	27	30	100 kHz,0.1 V	0.62	0.30(0.37)	270
BPSC00040418330□S0	33	30	100 kHz,0.1 V	0.675	0.26(0.32)	330
BPSC00040418680□S0	68	30	100 kHz,0.1 V	1.7	0.16(0.21)	680

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

- Operating temperature range –30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A
 - RDC : Chroma 16502
 - Isat : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000505201R0□S0	1	30	7.96 MHz, 1 V	0.045	1.72(2.50)	1R0
BPSC00050520R5□S0	1.5	30	7.96 MHz, 1 V	0.06	1.50(1.80)	1R5
BPSC000505201R8□S0	1.8	30	7.96 MHz, 1 V	0.07	1.35(1.70)	1R8
BPSC000505202R2□S0	2.2	20,30	7.96 MHz, 1 V	0.075	1.30(1.60)	2R2
BPSC000505202R7□S0	2.7	30	7.96 MHz, 1 V	0.105	1.20(1.50)	2R7
BPSC000505203R3□S0	3.3	20,30	7.96 MHz, 1 V	0.11	1.04(1.30)	3R3
BPSC000505203R9□S0	3.9	30	7.96 MHz, 1 V	0.155	0.88(1.20)	3R9
BPSC000505204R7□S0	4.7	30	7.96 MHz, 1 V	0.162	0.84(1.10)	4R7
BPSC000505205R6□S0	5.6	30	7.96 MHz, 1 V	0.17	0.80(1.00)	5R6
BPSC000505206R3□S0	6.3	30	7.96 MHz, 1 V	0.18	0.78(0.95)	6R3
BPSC000505206R8□S0	6.8	20,30	7.96 MHz, 1 V	0.2	0.76(0.85)	6R8
BPSC000505208R2□S0	8.2	30	7.96 MHz, 1 V	0.245	0.68(0.80)	8R2
BPSC00050520100□S0	10	20,30	100 kHz, 1 V	0.28	0.61(0.75)	100
BPSC00050520120□S0	12	30	100 kHz, 1 V	0.32	0.56(0.70)	120
BPSC00050520150□S0	15	30	100 kHz, 1 V	0.36	0.50(0.65)	150
BPSC00050520180□S0	18	30	100 kHz, 1 V	0.4	0.48(0.60)	180
BPSC00050520220□S0	22	20,30	100 kHz, 1 V	0.48	0.41(0.55)	220
BPSC00050520270□S0	27	30	100 kHz, 1 V	0.57	0.35(0.50)	270
BPSC00050520330□S0	33	30	100 kHz, 1 V	0.694	0.32(0.45)	330
BPSC00050520390□S0	39	30	100 kHz, 1 V	0.8	0.30(0.40)	390
BPSC00050520470□S0	47	30	100 kHz, 1 V	0.95	0.28(0.38)	470
BPSC00050520560□S0	56	30	100 kHz, 1 V	1.08	0.26(0.35)	560
BPSC00050520680□S0	68	30	100 kHz, 1 V	1.3	0.24(0.34)	680
BPSC00050520101□S0	100	20,30	100 kHz, 1 V	2	0.20(0.30)	101

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
 RDC : Chroma 16502
 Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000505301R2□S0	1.2	30	100 kHz, 1 V	0.0236	2.56(4.10)	1R2
BPSC000505301R8□S0	1.8	30	100 kHz, 1 V	0.035	2.20(3.20)	1R8
BPSC000505302R0□S0	2.0	30	100 kHz, 1 V	0.030	2.10(3.00)	2R0
BPSC000505302R2□S0	2.2	20,30	100 kHz, 1 V	0.0313	2.04(2.90)	2R2
BPSC000505302R7□S0	2.7	30	100 kHz, 1 V	0.0433	1.60(2.80)	2R7
BPSC000505303R3□S0	3.3	30	100 kHz, 1 V	0.0492	1.57(2.30)	3R3
BPSC000505303R9□S0	3.9	30	100 kHz, 1 V	0.0648	1.44(2.10)	3R9
BPSC000505304R7□S0	4.7	20,30	100 kHz, 1 V	0.072	1.32(2.00)	4R7
BPSC000505305R6□S0	5.6	30	100 kHz, 1 V	0.1009	1.17(1.70)	5R6
BPSC000505306R8□S0	6.8	20,30	100 kHz, 1 V	0.1089	1.12(1.60)	6R8
BPSC000505308R2□S0	8.2	30	100 kHz, 1 V	0.1175	1.04(1.50)	8R2
BPSC00050530100□S0	10	30	100 kHz, 1 V	0.1283	1.00(1.30)	100
BPSC00050530120□S0	12	20,30	100 kHz, 1 V	0.1316	0.84(1.10)	120
BPSC00050530150□S0	15	30	100 kHz, 1 V	0.149	0.76(1.00)	150
BPSC00050530180□S0	18	30	100 kHz, 1 V	0.166	0.72(0.99)	180
BPSC00050530220□S0	22	20,30	100 kHz, 1 V	0.235	0.70(0.93)	220
BPSC00050530270□S0	27	30	100 kHz, 1 V	0.261	0.58(0.83)	270
BPSC00050530330□S0	33	20,30	100 kHz, 1 V	0.3313	0.56(0.64)	330
BPSC00050530390□S0	39	20,30	100 kHz, 1 V	0.3837	0.50(0.70)	390
BPSC00050530470□S0	47	20,30	100 kHz, 1 V	0.587	0.48(0.61)	470
BPSC00050530560□S0	56	30	100 kHz, 1 V	0.6245	0.41(0.54)	560
BPSC00050530680□S0	68	30	100 kHz, 1 V	0.699	0.35(0.49)	680
BPSC00050530820□S0	82	30	100 kHz, 1 V	0.9148	0.32(0.49)	820
BPSC00050530101□S0	100	20,30	100 kHz, 1 V	1.02	0.29(0.45)	101
BPSC00050530121□S0	120	30	100 kHz, 1 V	1.27	0.27(0.40)	121
BPSC00050530151□S0	150	30	100 kHz, 1 V	1.35	0.24(0.34)	151
BPSC00050530181□S0	180	30	100 kHz, 1 V	1.54	0.22(0.32)	181
BPSC00050530221□S0	220	30	100 kHz, 1 V	2	0.20(0.29)	221
BPSC00050530331□S0	330	20,30	100 kHz, 1 V	3.4	0.19(0.24)	331
BPSC00050530391□S0	390	20,30	100 kHz, 1 V	3.56	0.18(0.22)	391
BPSC00050530681□S0	680	20,30	100 kHz, 1 V	5.2	0.10(0.17)	681

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

- Operating temperature range – 30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
 - RDC : Chroma 16502
 - Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000505402R2□S0	2.2	30	100 kHz, 1V	0.033	3.5(4.6)	4.3	2R2
BPSC000505403R3□S0	3.3	30	100 kHz, 1V	0.039	2.7(3.4)	3.6	3R3
BPSC000505404R7□S0	4.7	20,30	100 kHz, 1V	0.053	2.4(3.0)	3	4R7
BPSC000505406R8□S0	6.8	20,30	100 kHz, 1V	0.06	2.0(2.6)	2.8	6R8
BPSC00050540100□S0	10	20,30	100 kHz, 1V	0.15	1.5(2.0)	1.6	100
BPSC00050540150□S0	15	20,30	100 kHz, 1V	0.21	1.2(1.6)	1.35	150
BPSC00050540220□S0	22	20,30	100 kHz, 1V	0.27	1.0(1.4)	1	220

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient.
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A (under 1MHz)
 - RDC : Chroma 16502
 - Isat : HP4284+42841A or WK3260B+WK3265B
 - Irms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000606201R0□S0	1.0	30	10 kHz,1 V	0.038	1.00(3.50)	1R0
BPSC000606201R5□S0	1.5	30	10 kHz,1 V	0.038	2.50(3.00)	1R5
BPSC000606202R0□S0	2.0	30	10 kHz,1 V	0.045	2.10(2.60)	2R0
BPSC000606202R2□S0	2.2	30	10 kHz,1 V	0.048	2.00(2.50)	2R2
BPSC000606203R3□S0	3.3	30	10 kHz,1 V	0.056	1.70(2.00)	3R3
BPSC000606204R1□S0	4.1	30	10 kHz,1 V	0.057	1.55(1.90)	4R1
BPSC000606204R7□S0	4.7	20,30	10 kHz,1 V	0.076	1.35(1.70)	4R7
BPSC000606205R4□S0	5.4	30	10 kHz,1 V	0.076	1.20(1.50)	5R4
BPSC000606206R2□S0	6.2	30	10 kHz,1 V	0.096	1.10(1.40)	6R2
BPSC000606206R8□S0	6.8	30	10 kHz,1 V	0.1	1.00(1.30)	6R8
BPSC000606208R9□S0	8.9	30	10 kHz,1 V	0.116	0.95(1.25)	8R9
BPSC00060620100□S0	10	20,30	10 kHz,1 V	0.124	0.90(1.20)	100
BPSC00060620120□S0	12	30	10 kHz,1 V	0.153	0.90(1.00)	120
BPSC00060620150□S0	15	20,30	10 kHz,1 V	0.196	0.80(0.91)	150
BPSC00060620180□S0	18	30	10 kHz,1 V	0.21	0.75(0.90)	180
BPSC00060620220□S0	22	20,30	10 kHz,1 V	0.29	0.65(0.80)	220
BPSC00060620270□S0	27	30	10 kHz,1 V	0.33	0.60(0.70)	270
BPSC00060620330□S0	33	20,30	10 kHz,1 V	0.386	0.55(0.65)	330
BPSC00060620390□S0	39	30	10 KHz,1 V	0.52	0.48(0.60)	390
BPSC00060620470□S0	47	20,30	10 kHz,1 V	0.595	0.44(0.51)	470
BPSC00060620560□S0	56	30	10 kHz,1 V	0.665	0.40(0.50)	560
BPSC00060620680□S0	68	30	10 kHz,1 V	0.84	0.33(0.43)	680
BPSC00060620820□S0	82	30	10 kHz,1 V	0.978	0.30(0.41)	820
BPSC00060620101□S0	100	20,30	10 kHz,1 V	1.2	0.25(0.36)	101

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

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
L : Agilent/ E4980 or HP4284A
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000606301R0□S0	1.0	30	10 kHz,1 V	0.015	3.50(4.20)	1R0
BPSC000606301R5□S0	1.5	30	10 kHz,1 V	0.015	2.80(3.70)	1R5
BPSC000606302R2□S0	2.2	30	10 kHz,1 V	0.018	2.40(3.10)	2R2
BPSC000606302R5□S0	2.5	30	10 kHz,1 V	0.022	2.30(2.70)	2R5
BPSC000606302R6□S0	2.6	30	10 kHz,1 V	0.022	2.20(2.60)	2R6
BPSC000606302R7□S0	2.7	30	10 kHz,1 V	0.024	2.20(2.60)	2R7
BPSC000606303R0□S0	3.0	30	10 kHz,1 V	0.024	2.20(2.50)	3R0
BPSC000606303R3□S0	3.3	30	10 kHz,1 V	0.027	2.10(2.50)	3R3
BPSC000606304R2□S0	4.2	30	10 kHz,1 V	0.031	2.00(2.20)	4R2
BPSC000606304R3□S0	4.3	30	10 kHz,1 V	0.041	1.80(2.10)	4R3
BPSC000606304R7□S0	4.7	20,30	10 kHz,1 V	0.038	1.60(2.00)	4R7
BPSC000606305R0□S0	5.0	30	10 kHz,1 V	0.038	1.50(1.90)	5R0
BPSC000606305R3□S0	5.3	20,30	10 kHz,1 V	0.038	1.50(1.90)	5R3
BPSC000606306R2□S0	6.2	20,30	10 kHz,1 V	0.045	1.20(1.80)	6R2
BPSC000606306R8□S0	6.8	20,30	10 kHz,1 V	0.05	1.20(1.60)	6R8
BPSC000606308R2□S0	8.2	20,30	10 kHz,1 V	0.053	1.00(1.50)	8R2
BPSC00060630100□S0	10	20,30	10 kHz,1 V	0.065	0.95(1.40)	100
BPSC00060630120□S0	12	20,30	10 kHz,1 V	0.076	0.90(1.30)	120
BPSC00060630150□S0	15	20,30	10 kHz,1 V	0.103	0.85(1.10)	150
BPSC00060630180□S0	18	30	10 kHz,1 V	0.11	0.80(1.00)	180
BPSC00060630220□S0	22	20,30	10 kHz,1 V	0.122	0.75(0.92)	220
BPSC00060630270□S0	27	30	10 kHz,1 V	0.175	0.65(0.82)	270
BPSC00060630330□S0	33	30	10 kHz,1 V	0.189	0.60(0.75)	330
BPSC00060630390□S0	39	30	10 kHz,1 V	0.212	0.55(0.70)	390
BPSC00060630470□S0	47	20,30	10 kHz,1 V	0.25	0.50(0.62)	470
BPSC00060630560□S0	56	30	10 kHz,1 V	0.305	0.48(0.59)	560
BPSC00060630680□S0	68	30	10 kHz,1 V	0.355	0.42(0.52)	680
BPSC00060630820□S0	82	30	10 kHz,1 V	0.463	0.39(0.46)	820

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

- Operating temperature range – 30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
L : Agilent/ E4980 or HP4284A
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC00060630101□S0	100	20,30	10 kHz,1 V	0.52	0.35(0.42)	101
BPSC00060630181□S0	180	30	10 kHz,1 V	1.05	0.21(0.31)	181
BPSC00060630221□S0	220	30	10 kHz,1 V	1.2	0.20(0.30)	221
BPSC00060630331□S0	330	20,30	10 kHz,1 V	1.7	0.15(0.24)	331
BPSC00060630391□S0	390	30	10 kHz,1 V	1.8	0.13(0.22)	391
BPSC00060630471□S0	470	20,30	10 kHz,1 V	2.5	0.11(0.21)	471
BPSC00060630561□S0	560	20,30	10 kHz,1 V	3.2	0.10(0.17)	561

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30% , N= \pm 40% -20%

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A
 RDC : Chroma 16502
 Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000707301R0□S0	1.0	30	10 kHz,1 V	0.024	3.50(5.30)	1R0
BPSC000707301R5□S0	1.5	30	10 kHz,1 V	0.0195	3.40(4.50)	1R5
BPSC000707302R2□S0	2.2	20,30	10 kHz,1 V	0.035	3.00(3.40)	2R2
BPSC000707303R0□S0	3	30	10 kHz,1 V	0.024	2.60(3.20)	3R0
BPSC000707303R3□S0	3.3	30	10 kHz,1 V	0.025	2.50(3.10)	3R3
BPSC000707303R9□S0	3.9	30	10 kHz,1 V	0.027	2.30(2.90)	3R9
BPSC000707304R7□S0	4.7	20,30	10 kHz,1 V	0.031	1.92(2.40)	4R7
BPSC000707305R0□S0	5.0	30	10 kHz,1 V	0.031	1.74(2.40)	5R0
BPSC000707306R0□S0	6.0	30	10 kHz,1 V	0.035	1.70(2.25)	6R0
BPSC000707306R2□S0	6.2	20,30	10 kHz,1 V	0.051	1.40(2.20)	6R2
BPSC000707306R8□S0	6.8	20,30	10 kHz,1 V	0.05	1.30(2.15)	6R8
BPSC000707307R3□S0	7.3	30	10 kHz,1 V	0.054	1.25(2.10)	7R3
BPSC000707308R6□S0	8.6	30	10 kHz,1 V	0.058	1.20(1.85)	8R6
BPSC00070730100□S0	10	20,30	10 kHz,1 V	0.065	1.15(1.70)	100
BPSC00070730120□S0	12	20,30	10 kHz,1 V	0.07	1.14(1.50)	120
BPSC00070730150□S0	15	20,30	10 kHz,1 V	0.084	1.12(1.40)	150
BPSC00070730180□S0	18	30	10 kHz,1 V	0.095	1.02(1.32)	180
BPSC00070730220□S0	22	30	10 kHz,1 V	0.128	0.87(1.20)	220
BPSC00070730270□S0	27	30	10 kHz,1 V	0.142	0.82(1.05)	270
BPSC00070730330□S0	33	30	10 kHz,1 V	0.165	0.80(0.97)	330
BPSC00070730390□S0	39	30	10 kHz,1 V	0.21	0.79(0.90)	390
BPSC00070730470□S0	47	20,30	10 kHz,1 V	0.238	0.70(0.80)	470
BPSC00070730560□S0	56	30	10 kHz,1 V	0.277	0.60(0.73)	560
BPSC00070730680□S0	68	30	10 kHz,1 V	0.304	0.55(0.65)	680
BPSC00070730820□S0	82	30	10 kHz,1 V	0.39	0.48(0.60)	820
BPSC00070730101□S0	100	30	10 kHz,1 V	0.535	0.43(0.54)	101
BPSC00070730121□S0	120	20,30	10 kHz,1 V	0.6	0.36(0.45)	121
BPSC00070730221□S0	220	20,30	10 kHz,1 V	1.3	0.27(0.34)	221

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

- Operating temperature range – 30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A
 - RDC : Chroma 16502
 - Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000707402R2□S0	2.2	30	10 kHz,0.1 V	0.018	3.80(4.70)	2R2
BPSC000707402R7□S0	2.7	30	10 kHz,0.1 V	0.02	3.20(4.00)	2R7
BPSC000707403R3□S0	3.3	20,30	10 kHz,0.1 V	0.023	3.00(3.80)	3R3
BPSC000707404R7□S0	4.7	20,30	10 kHz,0.1 V	0.025	2.70(3.40)	4R7
BPSC000707405R0□S0	5	20,30	10 kHz,0.1 V	0.026	2.50(3.10)	5R0
BPSC000707405R6□S0	5.6	30	10 kHz,0.1 V	0.027	2.30(3.00)	5R6
BPSC000707406R2□S0	6.2	20,30	10 kHz,0.1 V	0.027	1.80(2.80)	6R2
BPSC000707406R8□S0	6.8	30	10 kHz,0.1 V	0.032	1.70(2.70)	6R8
BPSC000707407R4□S0	7.4	30	10 kHz,0.1 V	0.032	1.70(2.50)	7R4
BPSC000707408R7□S0	8.7	30	10 kHz,0.1 V	0.034	1.70(2.40)	8R7
BPSC00070740100□S0	10	20,30	10 kHz,0.1 V	0.041	1.60(2.20)	100
BPSC00070740120□S0	12	30	10 kHz,0.1 V	0.053	1.50(1.90)	120
BPSC00070740150□S0	15	20,30	10 kHz,0.1 V	0.057	1.40(1.80)	150
BPSC00070740180□S0	18	30	10 kHz,0.1 V	0.092	1.25(1.60)	180
BPSC00070740220□S0	22	20,30	10 kHz,0.1 V	0.096	1.10(1.50)	220
BPSC00070740270□S0	27	30	10 kHz,0.1 V	0.109	0.90(1.20)	270
BPSC00070740330□S0	33	20,30	10 kHz,0.1 V	0.124	0.85(1.10)	330
BPSC00070740390□S0	39	20,30	10 kHz,0.1 V	0.138	0.80(1.10)	390
BPSC00070740470□S0	47	20,30	10 kHz,0.1 V	0.15	0.70(1.00)	470
BPSC00070740560□S0	56	30	10 kHz,0.1 V	0.202	0.65(0.90)	560
BPSC00070740680□S0	68	20,30	10 kHz,0.1 V	0.234	0.60(0.80)	680
BPSC00070740820□S0	82	30	10 kHz,0.1 V	0.324	0.55(0.70)	820
BPSC00070740101□S0	100	20,30	10 kHz,0.1 V	0.358	0.50(0.65)	101
BPSC00070740561□S0	560	30	10 kHz,0.1 V	1.8	0.20(0.25)	561

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

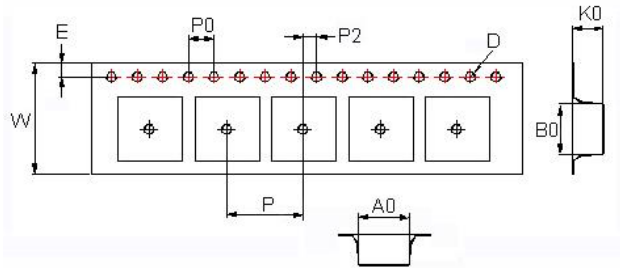
- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of winding and test the value.
- Measure Equipment :
L : Agilent/ E4980 or HP4284A
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B

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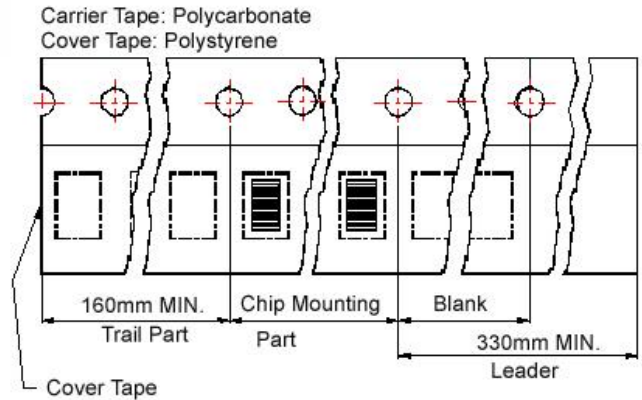
SMD Shielded Power Inductors - BPSC Series

Packaging Specifications

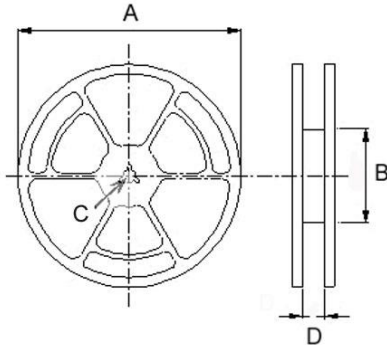
Tape Dimensions



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	
BPSC00404018	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00050520	5.3	5.3	2.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
BPSC00050530	5.3	5.3	3.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
BPSC00050540	5.35	5.35	4.1	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BPSC00060620	6.2	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	13.4	1500
BPSC00060630	6.2	6.2	3.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
BPSC00070730	7.25	7.25	3.35	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
BPSC00070740	7.1	7.1	4.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1000

BPSC Series

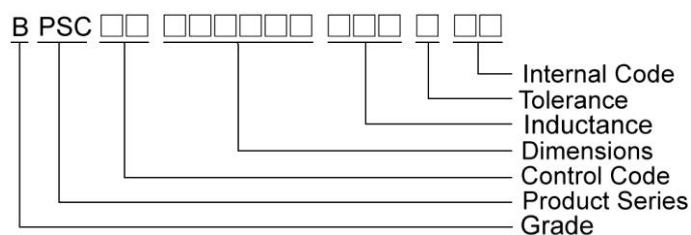
Features

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

Applications

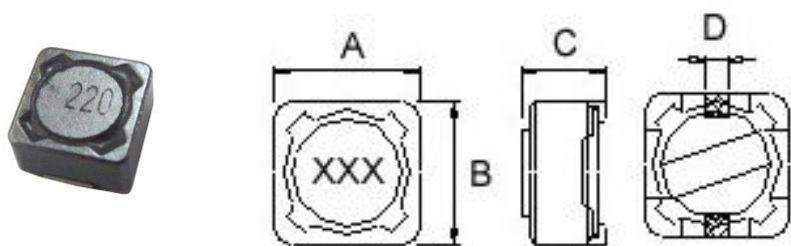
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

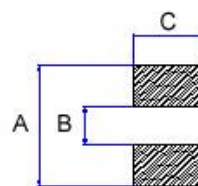


Shape and Dimensions

BPSC00070734/070745



Recommended Pattern

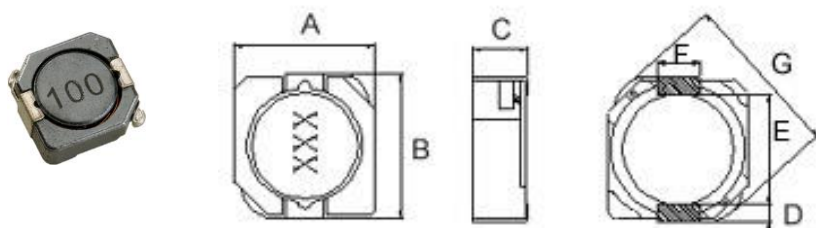


Dimension in mm

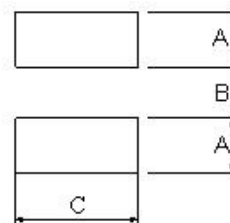
TYPE	Shape and Dimensions				Recommended Pattern		
	A	B	C	D	A	B	C
BPSC00070734	7.3±0.2	7.3±0.2	3.4 ⁺⁰	1.8	8.4	4.4	2.2
BPSC00070745	7.3±0.2	7.3±0.2	4.5 ⁺⁰	1.8	8.4	4.4	2.2

Shape and Dimensions

BPSC00101131/101140/101151



Recommended Pattern



Dimensions in mm

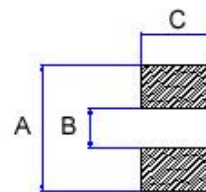
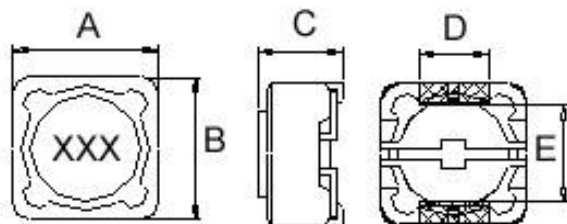
TYPE	A	B	C	D	E	F	G	A	B	C
BPSC00101131	10.3 ⁺⁰	10.5 ⁺⁰	3.1 ⁺⁰	1.2	7.7	3.0	13.5 ⁺⁰	1.6	7.3	3.2
BPSC00101140	10.3 ⁺⁰	10.5 ⁺⁰	4 ⁺⁰	1.2	7.7	3.0	13.5 ⁺⁰	1.6	7.3	3.2
BPSC00101151	10.3 ⁺⁰	10.5 ⁺⁰	5.1 ⁺⁰	1.2	7.7	3.0	13.5 ⁺⁰	1.6	7.3	3.2

SMD Shielded Power Inductors – BPSC Series

Shape and Dimensions

Recommended Pattern

BPSC00131345/131360/131380/131310



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00131345	12.5 ⁺⁰	12.5 ⁺⁰	4.5 ⁺⁰	5	7.6	13	7	5.4
BPSC00131360	12.5 ⁺⁰	12.5 ⁺⁰	6 ⁺⁰	5	7.6	13	7	5.4
BPSC00131380	12.5 ⁺⁰	12.5 ⁺⁰	8 ⁺⁰	5	7.6	13	7	5.4
BPSC00131310	12±0.5	12±0.5	10 Max.	5.0±0.2	7.6±0.3	12.8	7	5.4

SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Marking
BPSC000707341R5□00	1.5	20	1 kHz, 1 V	0.03	4	1R5
BPSC000707342R2□00	2.2	20	1 kHz, 1 V	0.03	4	2R2
BPSC000707343R3□00	3.3	20	1 kHz, 1 V	0.04	3.7	3R3
BPSC000707346R8□00	6.8	20	1 kHz, 1 V	0.06	2	6R8
BPSC00070734100□00	10	20	1 kHz, 1 V	0.072	1.68	100
BPSC00070734120□00	12	20	1 kHz, 1 V	0.098	1.52	120
BPSC00070734150□00	15	20	1 kHz, 1 V	0.13	1.33	150
BPSC00070734180□00	18	20	1 kHz, 1 V	0.14	1.2	180
BPSC00070734220□00	22	20	1 kHz, 1 V	0.19	1.07	220
BPSC00070734270□00	27	20	1 kHz, 1 V	0.21	0.96	270
BPSC00070734330□00	33	20	1 kHz, 1 V	0.24	0.91	330
BPSC00070734390□00	39	20	1 kHz, 1 V	0.32	0.77	390
BPSC00070734470□00	47	20	1 kHz, 1 V	0.36	0.76	470
BPSC00070734560□00	56	20	1 kHz, 1 V	0.47	0.68	560
BPSC00070734680□00	68	20	1 kHz, 1 V	0.52	0.61	680
BPSC00070734820□00	82	20	1 kHz, 1 V	0.69	0.57	820
BPSC00070734101□00	100	20	1 kHz, 1 V	0.79	0.5	101
BPSC00070734121□00	120	20	1 kHz, 1 V	0.89	0.49	121
BPSC00070734151□00	150	20	1 kHz, 1 V	1.27	0.43	151
BPSC00070734181□00	180	20	1 kHz, 1 V	1.45	0.39	181
BPSC00070734221□00	220	20	1 kHz, 1 V	1.65	0.35	221
BPSC00070734271□00	270	20	1 kHz, 1 V	2.31	0.32	271
BPSC00070734331□00	330	20	1 kHz, 1 V	2.62	0.28	331
BPSC00070734391□00	390	20	1 kHz, 1 V	2.94	0.26	391
BPSC00070734471□00	470	20	1 kHz, 1 V	4.18	0.24	471
BPSC00070734561□00	560	20	1 kHz, 1 V	4.67	0.22	561
BPSC00070734681□00	680	20	1 kHz, 1 V	5.73	0.19	681
BPSC00070734821□00	820	20	1 kHz, 1 V	6.54	0.18	821
BPSC00070734102□00	1000	20	1 kHz, 1 V	9.44	0.16	102

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

- Operating temperature range –40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment :
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Marking
BPSC000707451R5□00	1.5	20	1 kHz, 1 V	0.02	5	1R5
BPSC000707451R8□00	1.8	20	1 kHz, 1 V	0.025	4	1R8
BPSC000707452R2□00	2.2	20,30	1 kHz, 1 V	0.025	3.5	2R2
BPSC000707452R7□00	2.7	20,30	1 kHz, 1 V	0.03	3.5	2R7
BPSC000707453R3□00	3.3	20,30	1 kHz, 1 V	0.035	3.5	3R3
BPSC000707453R6□00	3.6	20,30	1 kHz, 1 V	0.035	3.2	3R6
BPSC000707454R7□00	4.7	20,30	1 kHz, 1 V	0.035	3	4R7
BPSC000707456R8□00	6.8	20	1 kHz, 1 V	0.045	2.5	6R8
BPSC00070745100□00	10	20	1 kHz, 1 V	0.049	1.84	100
BPSC00070745120□00	12	20	1 kHz, 1 V	0.058	1.71	120
BPSC00070745150□00	15	20	1 kHz, 1 V	0.081	1.47	150
BPSC00070745180□00	18	20	1 kHz, 1 V	0.091	1.31	180
BPSC00070745220□00	22	20	1 kHz, 1 V	0.11	1.23	220
BPSC00070745270□00	27	20	1 kHz, 1 V	0.15	1.12	270
BPSC00070745330□00	33	20	1 kHz, 1 V	0.17	0.96	330
BPSC00070745390□00	39	20	1 kHz, 1 V	0.23	0.91	390
BPSC00070745470□00	47	20	1 kHz, 1 V	0.26	0.88	470
BPSC00070745560□00	56	20	1 kHz, 1 V	0.35	0.75	560
BPSC00070745680□00	68	20	1 kHz, 1 V	0.38	0.69	680
BPSC00070745820□00	82	20	1 kHz, 1 V	0.43	0.61	820
BPSC00070745101□00	100	20	1 kHz, 1 V	0.61	0.6	101
BPSC00070745121□00	120	20	1 kHz, 1 V	0.66	0.52	121
BPSC00070745151□00	150	20	1 kHz, 1 V	0.88	0.46	151
BPSC00070745181□00	180	20	1 kHz, 1 V	0.98	0.42	181
BPSC00070745221□00	220	10,20	1 kHz, 1 V	1.17	0.36	221
BPSC00070745271□00	270	10,20	1 kHz, 1 V	1.64	0.34	271
BPSC00070745331□00	330	10,20	1 kHz, 1 V	1.86	0.32	331
BPSC00070745391□00	390	10,20	1 kHz, 1 V	2.85	0.29	391
BPSC00070745471□00	470	10,20	1 kHz, 1 V	3.01	0.26	471
BPSC00070745561□00	560	10,20	1 kHz, 1 V	3.62	0.23	561
BPSC00070745681□00	680	10,20	1 kHz, 1 V	4.63	0.22	681
BPSC00070745821□00	820	10,20	1 kHz, 1 V	5.2	0.2	821
BPSC00070745102□00	1000	10,20	1 kHz, 1 V	6	0.18	102

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

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment :
 - L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
 - RDC : Chroma 16502
 - Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Irms (A)Typ.	Marking
BPSC001011314R7□00	4.7	30	100 kHz, 1 V	0.03	4.65	4	4R7
BPSC001011316R8□00	6.8	30	100 kHz, 1 V	0.035	3.84	3.6	6R8
BPSC00101131100□00	10	20,30	100 kHz, 1 V	0.059	3.18	2.8	100
BPSC00101131150□00	15	20,30	100 kHz, 1 V	0.091	2.6	2.05	150
BPSC00101131330□00	33	20,30	100 kHz, 1 V	0.202	1.74	1.35	330
BPSC00101131470□00	47	20,30	100 kHz, 1 V	0.299	1.43	1.2	470
BPSC00101131560□00	56	20,30	100 kHz, 1 V	0.325	0.9	1.15	560

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 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient.
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
 RDC : Chroma 16502
 Isat : HP4284+42841A or WK3260B+WK3265B
 I rms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC001011401R5□00	1.5	30,+40-20	100 kHz, 1 V	0.0088	8.5(10.5)	6.5	1R5
BPSC001011402R2□00	2.2	30	100 kHz, 1 V	0.012	8.0(10.5)	6.1	2R2
BPSC001011402R5□00	2.5	30	100 kHz, 1 V	0.012	7.5(9.5)	6.1	2R5
BPSC001011403R3□00	3.3	30	100 kHz, 1 V	0.015	7.0(8.7)	5.5	3R3
BPSC001011403R8□00	3.8	30	100 kHz, 1 V	0.015	6.8(8.5)	5.5	3R8
BPSC001011404R7□00	4.7	20,30	100 kHz, 1 V	0.02	5.8(7.3)	5.4	4R7
BPSC001011405R2□00	5.2	20,30	100 kHz, 1 V	0.024	5.8(7.3)	5.2	5R2
BPSC001011405R6□00	5.6	20,30	100 kHz, 1 V	0.027	5.0(6.5)	4.5	5R6
BPSC001011406R8□00	6.8	20,30	100 kHz, 1 V	0.031	5.0(6.5)	4.4	6R8
BPSC001011407R0□00	7	20,30	100 kHz, 1 V	0.031	4.8(5.9)	4.4	7R0
BPSC001011408R2□00	8.2	20,30	100 kHz, 1 V	0.036	4.5(5.8)	3.8	8R2
BPSC00101140100□00	10	20,30	100 kHz, 1 V	0.04	4.0(5.0)	3.6	100
BPSC00101140120□00	12	20,30	100 kHz, 1 V	0.046	3.7(4.6)	3.4	120
BPSC00101140150□00	15	20,30	100 kHz, 1 V	0.055	3.4(4.3)	2.8	150
BPSC00101140180□00	18	20,30	100 kHz, 1 V	0.075	2.9(3.6)	2.5	180
BPSC00101140220□00	22	20,30	100 kHz, 1 V	0.08	2.6(3.3)	2.4	220
BPSC00101140270□00	27	20,30	100 kHz, 1 V	0.096	2.4(3.0)	2.2	270
BPSC00101140330□00	33	20,30	100 kHz, 1 V	0.098	2.3(2.9)	2.1	330
BPSC00101140390□00	39	20,30	100 kHz, 1 V	0.12	2.1(2.7)	2	390
BPSC00101140470□00	47	20,30	100 kHz, 1 V	0.144	1.8(2.5)	1.8	470
BPSC00101140560□00	56	20,30	100 kHz, 1 V	0.175	1.6(2.1)	1.6	560
BPSC00101140680□00	68	20,30	100 kHz, 1 V	0.204	1.4(1.9)	1.45	680
BPSC00101140820□00	82	20,30	100 kHz, 1 V	0.25	1.3(1.7)	1.4	820
BPSC00101140101□00	100	20,30	100 kHz, 1 V	0.304	1.0(1.6)	1.25	101
BPSC00101140151□00	150	20,30	100 kHz, 1 V	0.506	0.96(1.3)	0.85	151
BPSC00101140221□00	220	20,30	100 kHz, 1 V	0.69	0.8(1.0)	0.73	221
BPSC00101140331□00	330	20,30	100 kHz, 1 V	1.09	0.68(0.86)	0.52	331
BPSC00101140471□00	470	20,30	100 kHz, 1 V	1.6	0.6(0.75)	0.46	471
BPSC00101140561□00	560	20,30	100 kHz, 1 V	1.68	0.5(0.68)	0.45	561

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30% , N= \pm 40% -20%

- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient.
- Measure Equipment :
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B
Irms : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC00101151R80□00	0.8	30	100 kHz, 1 V	0.0062	10.8(13.5)	7.8	R80
BPSC001011511R5□00	1.5	30	100 kHz, 1 V	0.0081	10.3(12.9)	7	1R5
BPSC001011512R2□00	2.2	30	100 kHz, 1 V	0.011	9.2(11)	6.3	2R2
BPSC001011513R3□00	3.3	30	100 kHz, 1 V	0.012	7.2(9.0)	6.1	3R3
BPSC001011514R7□00	4.7	20,30	100 kHz, 1 V	0.014	5.6(7.8)	5	4R7
BPSC001011516R8□00	6.8	20,30	100 kHz, 1 V	0.024	5.1(6.4)	4.7	6R8
BPSC001011518R2□00	8.2	20,30	100 kHz, 1 V	0.027	4.7(5.9)	4.4	8R2
BPSC00101151100□00	10	20,30	100 kHz, 1 V	0.028	4.4(5.6)	4.2	100
BPSC00101151120□00	12	20,30	100 kHz, 1 V	0.036	3.4(5.8)	3.6	120
BPSC00101151150□00	15	20,30	100 kHz, 1 V	0.041	3.2(4.5)	3.4	150
BPSC00101151180□00	18	20,30	100 kHz, 1 V	0.046	3.0(3.8)	3.1	180
BPSC00101151220□00	22	20,30	100 kHz, 1 V	0.061	2.8(3.6)	2.9	220
BPSC00101151270□00	27	20,30	100 kHz, 1 V	0.069	2.1(3.2)	2.6	270
BPSC00101151330□00	33	20,30	100 kHz, 1 V	0.084	2.0(2.9)	2.5	330
BPSC00101151390□00	39	20,30	100 kHz, 1 V	0.106	1.9(2.6)	2.25	390
BPSC00101151470□00	47	20,30	100 kHz, 1 V	0.13	1.7(2.3)	2	470
BPSC00101151560□00	56	20,30	100 kHz, 1 V	0.149	1.6(2.2)	1.9	560
BPSC00101151680□00	68	20,30	100 kHz, 1 V	0.201	1.5(2.0)	1.6	680
BPSC00101151820□00	82	20,30	100 kHz, 1 V	0.227	1.3(1.8)	1.45	820
BPSC00101151101□00	100	20,30	100 kHz, 1 V	0.253	1.2(1.7)	1.35	101
BPSC00101151121□00	120	20,30	100 kHz, 1 V	0.303	1.1(1.5)	1.18	121
BPSC00101151151□00	150	20,30	100 kHz, 1 V	0.42	1.0(1.3)	1	151
BPSC00101151181□00	180	20,30	100 kHz, 1 V	0.45	0.9(1.2)	0.9	181
BPSC00101151221□00	220	20,30	100 kHz, 1 V	0.54	0.8(1.1)	0.85	221
BPSC00101151271□00	270	20,30	100 kHz, 1 V	0.672	0.75(0.99)	0.8	271
BPSC00101151331□00	330	20,30	100 kHz, 1 V	0.812	0.74(0.92)	0.73	331
BPSC00101151391□00	390	20,30	100 kHz, 1 V	0.953	0.62(0.83)	0.7	391
BPSC00101151471□00	470	20,30	100 kHz, 1 V	1.29	0.6(0.77)	0.54	471
BPSC00101151561□00	560	20,30	100 kHz, 1 V	1.43	0.47(0.71)	0.52	561
BPSC00101151681□00	680	20,30	100 kHz, 1 V	1.6	0.46(0.65)	0.51	681
BPSC00101151821□00	820	20,30	100 kHz, 1 V	1.77	0.42(0.57)	0.48	821
BPSC00101151102□00	1000	20,30	100 kHz, 1 V	2.2	0.40(0.54)	0.4	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 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient.
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
 RDC : Chroma 16502
 Isat : HP4284+42841A or WK3260B+WK3265B
 I rms : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Marking
BPSC001313453R3□00	3.3	30	100 kHz, 1 V	0.015	8.8(11.1)	3R3
BPSC001313453R9□00	3.9	30	100 kHz, 1 V	0.016	8.0(10.1)	3R9
BPSC001313454R7□00	4.7	20,30	100 kHz, 1 V	0.018	7.9(9.9)	4R7
BPSC001313456R8□00	6.8	20,30	100 kHz, 1 V	0.023	6.5(8.3)	6R8
BPSC00131345100□00	10	20,30	100 kHz, 1 V	0.035	5.2(6.6)	100
BPSC00131345120□00	12	20,30	100 kHz, 1 V	0.038	4.8(6.2)	120
BPSC00131345150□00	15	20,30	100 kHz, 1 V	0.05	4.1(5.4)	150
BPSC00131345180□00	18	20,30	100 kHz, 1 V	0.057	4.0(5.1)	180
BPSC00131345220□00	22	20,30	100 kHz, 1 V	0.066	3.5(4.4)	220
BPSC00131345270□00	27	20,30	100 kHz, 1 V	0.08	3.1(3.9)	270
BPSC00131345330□00	33	20,30	100 kHz, 1 V	0.097	2.7(3.5)	330
BPSC00131345390□00	39	20,30	100 kHz, 1 V	0.132	2.1(3.2)	390
BPSC00131345470□00	47	20,30	100 kHz, 1 V	0.15	1.9(2.9)	470
BPSC00131345560□00	56	20,30	100 kHz, 1 V	0.19	1.8(2.6)	560
BPSC00131345680□00	68	20,30	100 kHz, 1 V	0.22	1.5(2.5)	680
BPSC00131345820□00	82	20,30	100 kHz, 1 V	0.26	1.3(2.3)	820
BPSC00131345101□00	100	20,30	100 kHz, 1 V	0.308	1.2(2.0)	101
BPSC00131345121□00	120	20,30	100 kHz, 1 V	0.38	1.1(1.8)	121
BPSC00131345151□00	150	20,30	100 kHz, 1 V	0.53	0.95(1.6)	151
BPSC00131345181□00	180	20,30	100 kHz, 1 V	0.62	0.85(1.4)	181
BPSC00131345221□00	220	20,30	100 kHz, 1 V	0.7	0.8(1.3)	221
BPSC00131345271□00	270	20,30	100 kHz, 1 V	0.876	0.6(1.1)	271
BPSC00131345331□00	330	20,30	100 kHz, 1 V	0.99	0.5(1.0)	331

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 35% from its value with current
- Measure Equipment :
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC001313603R3□00	3.3	30	1 kHz, 1 V	0.015	8.0(11)	6.5	3R3
BPSC001313604R7□00	4.7	20,30	1 kHz, 1 V	0.018	7.6(9.2)	5.7	4R7
BPSC001313606R4□00	6.4	20,30	1 kHz, 1 V	0.018	6.4(8.1)	5.7	6R4
BPSC001313608R2□00	8.2	20,30	1 kHz, 1 V	0.02	5.8(7.4)	5	8R2
BPSC00131360100□00	10	20,30	1 kHz, 1 V	0.025	5.3(6.8)	4	100
BPSC00131360120□00	12	20,30	1 kHz, 1 V	0.027	5.3(6.8)	3.5	120
BPSC00131360150□00	15	20,30	1 kHz, 1 V	0.03	4.0(5.2)	3.3	150
BPSC00131360180□00	18	20,30	1 kHz, 1 V	0.034	3.8(4.9)	3	180
BPSC00131360220□00	22	20,30	1 kHz, 1 V	0.036	3.6(4.8)	2.8	220
BPSC00131360270□00	27	20,30	1 kHz, 1 V	0.051	3.2(4.1)	2.3	270
BPSC00131360330□00	33	20,30	1 kHz, 1 V	0.057	2.9(3.7)	2.1	330
BPSC00131360390□00	39	20,30	1 kHz, 1 V	0.068	2.7(3.5)	2	390
BPSC00131360470□00	47	20,30	1 kHz, 1 V	0.084	2.4(3.1)	1.9	470
BPSC00131360560□00	56	20,30	1 kHz, 1 V	0.1	2.1(2.7)	1.7	560
BPSC00131360680□00	68	20,30	1 kHz, 1 V	0.12	2.0(2.6)	1.5	680
BPSC00131360820□00	82	20,30	1 kHz, 1 V	0.14	1.8(2.3)	1.4	820
BPSC00131360101□00	100	20,30	1 kHz, 1 V	0.16	1.6(2.1)	1.3	101
BPSC00131360121□00	120	20,30	1 kHz, 1 V	0.18	1.5(1.9)	1.05	121
BPSC00131360151□00	150	20,30	1 kHz, 1 V	0.23	1.3(1.7)	1	151
BPSC00131360181□00	180	20,30	1 kHz, 1 V	0.29	1.2(1.6)	0.9	181
BPSC00131360221□00	220	20,30	1 kHz, 1 V	0.32	1.0(1.4)	0.85	221
BPSC00131360271□00	270	20,30	1 kHz, 1 V	0.38	0.90(1.2)	0.83	271
BPSC00131360331□00	330	20,30	1 kHz, 1 V	0.48	0.75(1.1)	0.73	331
BPSC00131360391□00	390	20,30	1 kHz, 1 V	0.6	0.70(1.0)	0.67	391
BPSC00131360471□00	470	20,30	1 kHz, 1 V	0.7	0.65(0.99)	0.66	471
BPSC00131360561□00	560	20,30	1 kHz, 1 V	0.86	0.60(0.91)	0.54	561
BPSC00131360681□00	680	20,30	1 kHz, 1 V	1.1	0.55(0.82)	0.52	681
BPSC00131360821□00	820	20,30	1 kHz, 1 V	1.34	0.50(0.71)	0.43	821
BPSC00131360102□00	1000	20,30	1 kHz, 1 V	1.53	0.45(0.64)	0.3	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 35% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient
- Measure Equipment :
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
RDC : Chroma 16502
Isat & I rms : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Marking
BPSC001313801R5□00	1.5	30	100 kHz, 1 V	0.0074	21.6(28.0)	1R5
BPSC001313802R2□00	2.2	30,+40-20	100 kHz, 1 V	0.0089	17.6(24.0)	2R2
BPSC001313802R4□00	2.4	30,+40-20	100 kHz, 1 V	0.0089	17.6(24.0)	2R4
BPSC001313803R3□00	3.3	30,+40-20	100 kHz, 1 V	0.0099	14.6(19.4)	3R3
BPSC001313803R5□00	3.5	30,+40-20	100 kHz, 1 V	0.0123	13.8(17.4)	3R5
BPSC001313804R7□00	4.7	20,30	100 kHz, 1 V	0.0158	12.3(15.4)	4R7
BPSC001313806R1□00	6.1	20,30,+40-20	100 kHz, 1 V	0.0176	10.9(13.8)	6R1
BPSC001313806R8□00	6.8	20,30	100 kHz, 1 V	0.018	10.8(13.7)	6R8
BPSC001313807R6□00	7.6	20,30	100 kHz, 1 V	0.02	10.0(12.6)	7R6
BPSC00131380100□00	10	20,30	1 kHz, 1 V	0.022	8.9(11.2)	100
BPSC00131380120□00	12	20,30	1 kHz, 1 V	0.03	7.4(9.4)	120
BPSC00131380150□00	15	20,30	1 kHz, 1 V	0.034	7.1(9.0)	150
BPSC00131380180□00	18	20,30	1 kHz, 1 V	0.0392	6.5(8.2)	180
BPSC00131380220□00	22	20,30	1 kHz, 1 V	0.048	5.8(7.5)	220
BPSC00131380270□00	27	20,30	1 kHz, 1 V	0.052	5.3(6.7)	270
BPSC00131380330□00	33	20,30	1 kHz, 1 V	0.0648	4.8(6.1)	330
BPSC00131380390□00	39	20,30	1 kHz, 1 V	0.065	3.9(5.6)	390
BPSC00131380470□00	47	20,30	1 kHz, 1 V	0.1	3.6(5.2)	470
BPSC00131380560□00	56	20,30	1 kHz, 1 V	0.11	3.4(4.8)	560
BPSC00131380680□00	68	20,30	1 kHz, 1 V	0.12	2.8(4.1)	680
BPSC00131380820□00	82	20,30	1 kHz, 1 V	0.16	2.7(4.0)	820
BPSC00131380101□00	100	20,30	1 kHz, 1 V	0.17	2.5(3.5)	101
BPSC00131380121□00	120	20,30	1 kHz, 1 V	0.19	2.2(3.2)	121
BPSC00131380151□00	150	20,30	1 kHz, 1 V	0.25	2.0(2.9)	151
BPSC00131380181□00	180	20,30	1 kHz, 1 V	0.31	1.8(2.6)	181
BPSC00131380221□00	220	20,30	1 kHz, 1 V	0.35	1.7(2.4)	221
BPSC00131380271□00	270	20,30	1 kHz, 1 V	0.43	1.5(2.2)	271
BPSC00131380331□00	330	20,30	1 kHz, 1 V	0.51	1.2(2.0)	331
BPSC00131380391□00	390	20,30	1 kHz, 1 V	0.6	1.1(1.6)	391
BPSC00131380471□00	470	20,30	1 kHz, 1 V	0.71	0.99(1.6)	471
BPSC00131380561□00	560	20,30	1 kHz, 1 V	0.88	0.95(1.4)	561
BPSC00131380681□00	680	20,30	1 kHz, 1 V	1.04	0.84(1.2)	681
BPSC00131380821□00	820	20,30	1 kHz, 1 V	1.36	0.77(1.1)	821
BPSC00131380102□00	1000	20,30	1 kHz, 1 V	1.66	0.73(1.0)	102

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30% , N= \pm 40% -20%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment :
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max.	Isat (A)Max.	Irms (A)Typ.	Marking
BPSC001313101R0□00	1	30	100kHz, 0.1V	0.0055	19.90	11.6	1R0
BPSC001313101R8□00	1.8	30	100kHz, 0.1V	0.0065	13.40	11	1R8
BPSC001313102R0□00	2	30	100kHz, 0.1V	0.0070	12.90	10.7	2R0
BPSC001313102R2□00	2.2	20,30	100kHz, 0.1V	0.0070	12.90	10.7	2R2
BPSC001313102R5□00	2.5	30	100kHz, 0.1V	0.0080	12.16	10.3	2R5
BPSC001313103R5□00	3.5	30	100kHz, 0.1V	0.0097	12.00	8.7	3R5
BPSC001313103R6□00	3.6	30	100kHz, 0.1V	0.0100	12.00	8.7	3R6
BPSC001313104R7□00	4.7	20,30	100kHz, 0.1V	0.0110	11.00	8.4	4R7
BPSC001313105R8□00	5.8	30	100kHz, 0.1V	0.0113	10.50	7.6	5R8
BPSC001313106R8□00	6.8	20,30	100kHz, 0.1V	0.0115	10.00	7.1	6R8
BPSC001313107R5□00	7.5	20,30	100kHz, 0.1V	0.0140	8.48	6.8	7R5
BPSC001313108R2□00	8.2	20,30	100kHz, 0.1V	0.0160	8.30	6.7	8R2
BPSC00131310100□00	10	20,30	100kHz, 0.1V	0.0170	8.20	6.95	100
BPSC00131310120□00	12	20,30	100kHz, 0.1V	0.0185	7.04	6.2	120
BPSC00131310150□00	15	20,30	100kHz, 0.1V	0.025	5.80	5.22	150
BPSC00131310220□00	22	20,30	100kHz, 0.1V	0.029	5.12	4.95	220
BPSC00131310330□00	33	20,30	100kHz, 0.1V	0.053	4.25	3.6	330
BPSC00131310470□00	47	20,30	100kHz, 0.1V	0.063	3.60	3.45	470
BPSC00131310560□00	56	20,30	100kHz, 0.1V	0.068	2.85	2.95	560
BPSC00131310680□00	68	20,30	100kHz, 0.1V	0.093	2.76	2.85	680
BPSC00131310820□00	82	20,30	100kHz, 0.1V	0.099	2.62	2.6	820
BPSC00131310850□00	85	20,30	100kHz, 0.1V	0.120	2.60	2.6	850
BPSC00131310101□00	100	20,30	100kHz, 0.1V	0.126	2.31	2.45	101
BPSC00131310121□00	120	20,30	100kHz, 0.1V	0.154	2.05	2.2	121
BPSC00131310151□00	150	20,30	100kHz, 0.1V	0.174	1.80	1.9	151
BPSC00131310181□00	180	20,30	100kHz, 0.1V	0.191	1.66	1.86	181
BPSC00131310221□00	220	20,30	100kHz, 0.1V	0.246	1.64	1.72	221
BPSC00131310331□00	330	20,30	100kHz, 0.1V	0.386	1.28	1.28	331
BPSC00131310391□00	390	20,30	100kHz, 0.1V	0.440	1.20	1.27	391
BPSC00131310471□00	470	20,30	100kHz, 0.1V	0.471	1.06	1.25	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 25% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
 RDC : Chroma 16502
 Isat : HP4284+42841A or WK3260B+WK3265B
 I rms : HP4284+42841A or WK3260B+WK3265B

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SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency	RDC (Ω) Max.	Isat (A)Max.	Irms (A)Typ.	Marking
BPSC00131310561□00	560	20,30	100kHz, 0.1V	0.650	1.01	0.98	561
BPSC00131310681□00	680	20,30	100kHz, 0.1V	0.730	0.83	0.96	681
BPSC00131310821□00	820	20,30	100kHz, 0.1V	0.824	0.81	0.94	821
BPSC00131310102□00	1000	20,30	100kHz, 0.1V	1.220	0.70	0.78	102
BPSC00131310122□00	1200	20,30	100kHz, 0.1V	1.330	0.64	0.79	122
BPSC00131310152□00	1500	20,30	100kHz, 0.1V	1.990	0.56	0.58	152
BPSC00131310182□00	1800	20,30	100kHz, 0.1V	2.180	0.48	0.54	182
BPSC00131310222□00	2200	20,30	100kHz, 0.1V	2.580	0.43	0.52	222
BPSC00131310332□00	3300	20,30	100kHz, 0.1V	4.600	0.30	0.4	332

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

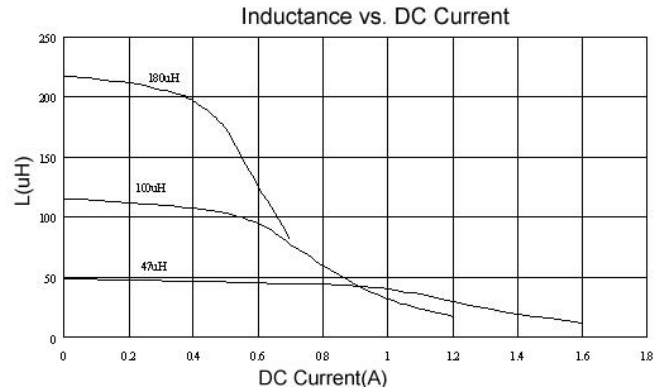
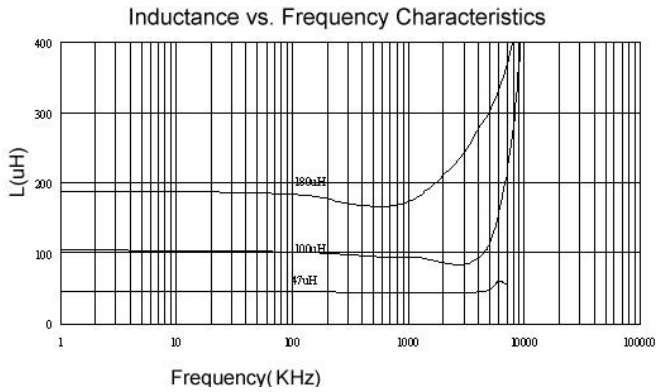
- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 25% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient
- Measure Equipment :
 L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
 RDC : Chroma 16502
 Isat : HP4284+42841A or WK3260B+WK3265B
 I rms : HP4284+42841A or WK3260B+WK3265B

SMD Shielded Power Inductors - BPSC Series

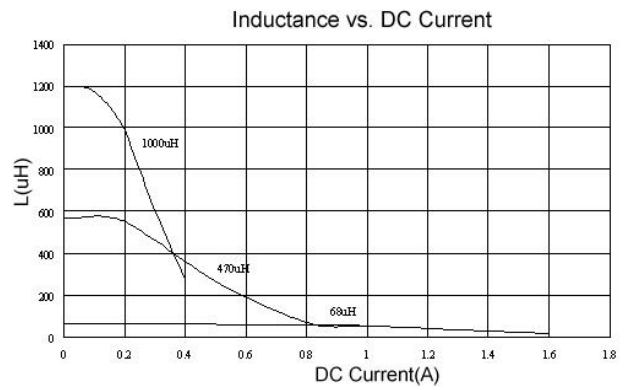
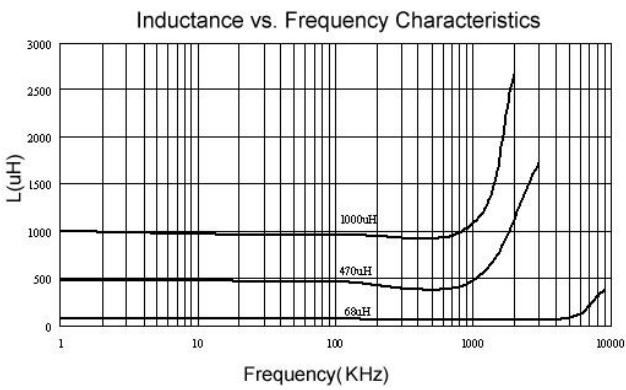
Curves of BPSC Series

Test Instruments : HP4294 Impedance / Material Analyzer

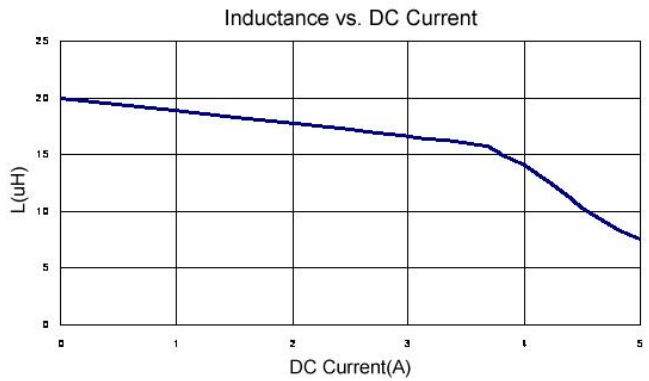
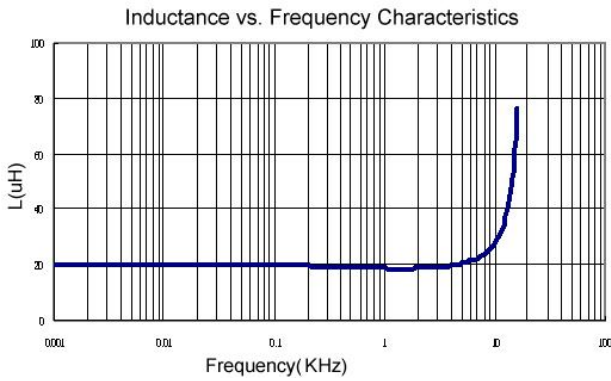
BPSC00070734



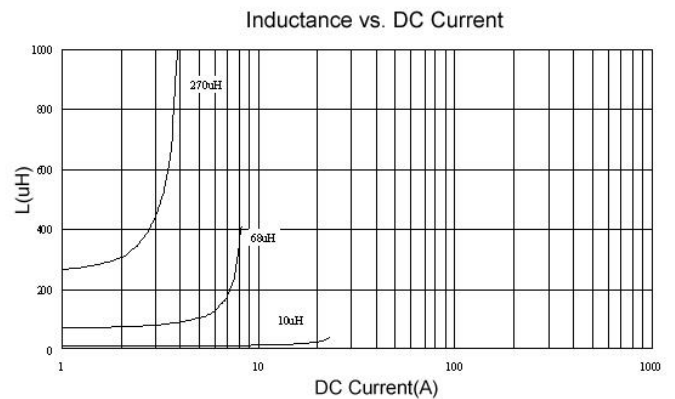
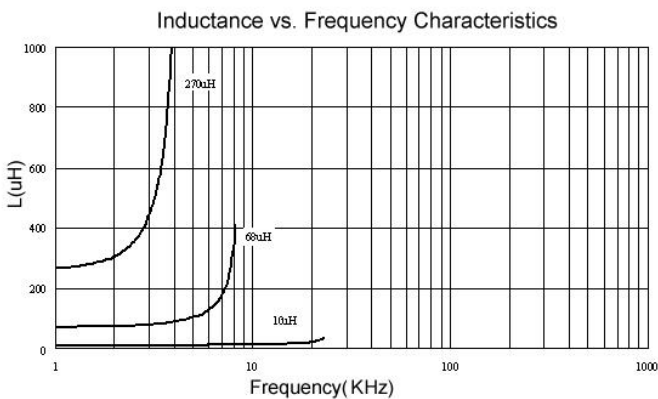
BPSC00070745



BPSC00101140



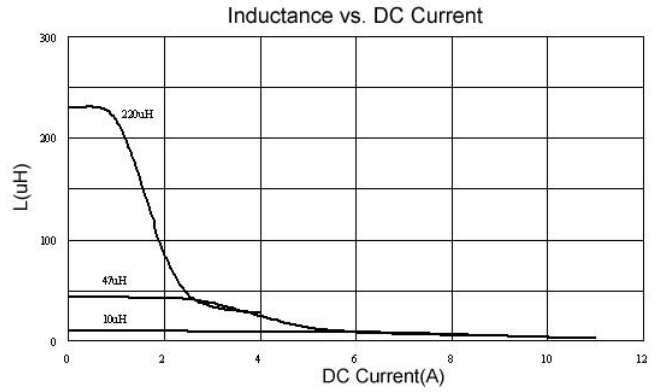
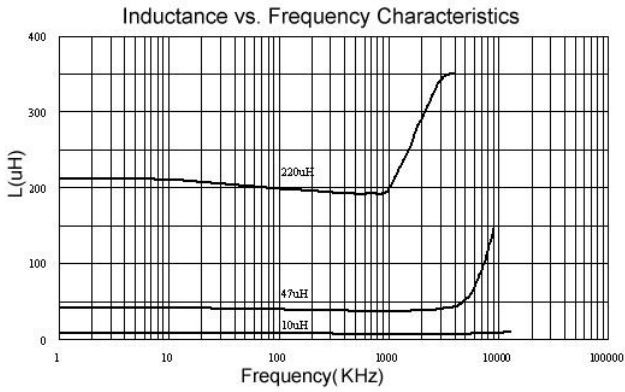
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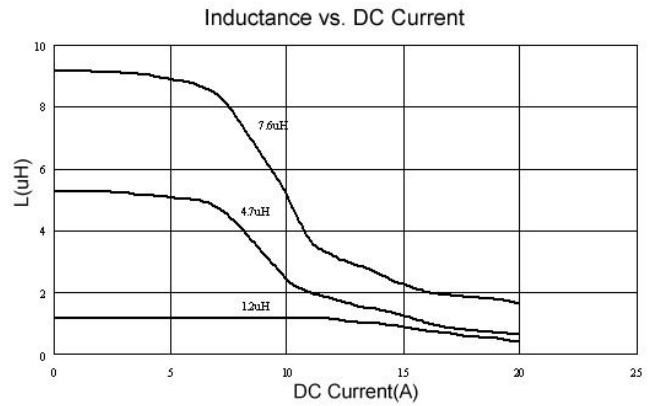
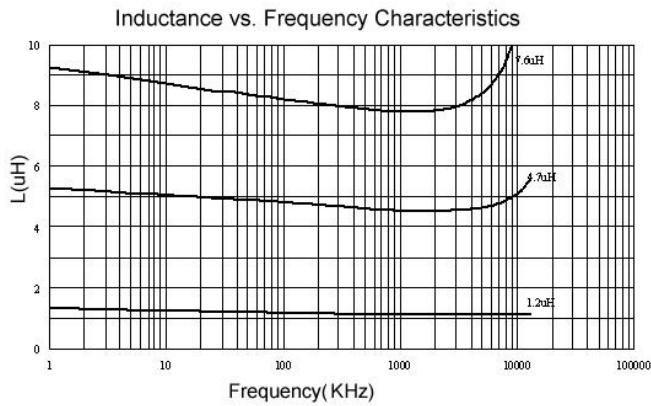
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SMD Shielded Power Inductors - BPSC Series

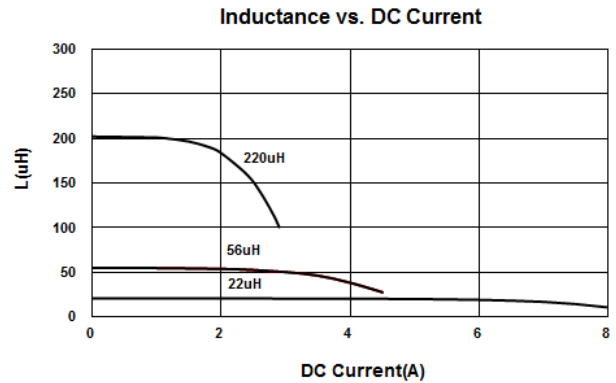
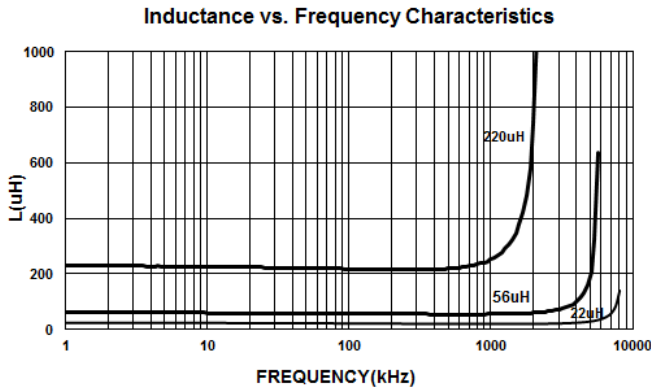
BPSC00131360



BPSC00131380



BPSC00131310

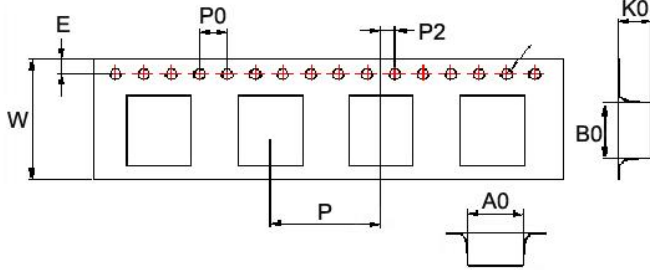


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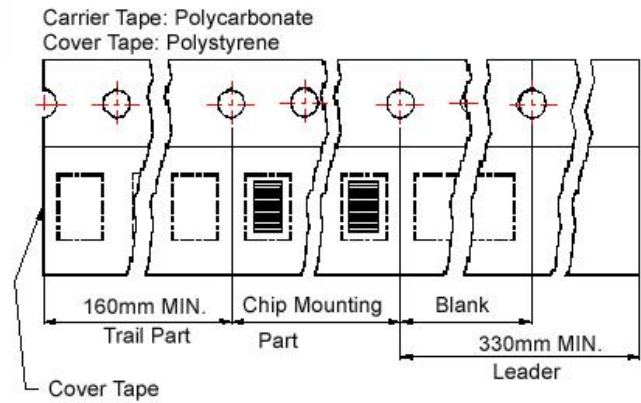
SMD Shielded Power Inductors - BPSC Series

Packaging Specifications

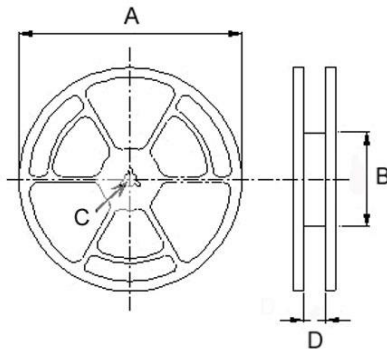
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00070734	7.6	7.6	3.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1600
BPSC00070745	7.6	7.6	5.0	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSC00101131	10.6	10.75	4.2	1.55	1.75	24	16	4	2	300	100	13	24.4	1000
BPSC00101140	10.6	10.75	4.2	1.5	1.75	24	16	4	2	330	100	13	24.4	1000
BPSC00101151	10.6	10.6	5.0	1.5	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131345	13.0	12.8	5.1	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131360	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.4	600
BPSC00131380	12.6	12.6	8.7	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131310	12.7	12.7	10.2	1.55	1.75	24	24	4	2	330	100	13	24.4	250

BPSC Series



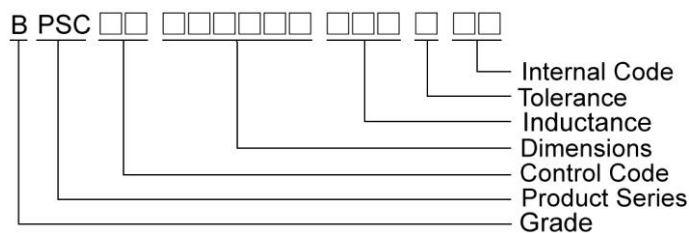
Features

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

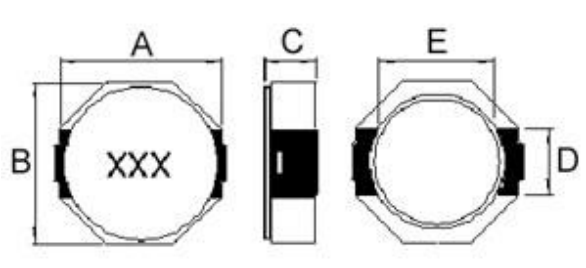
Applications

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

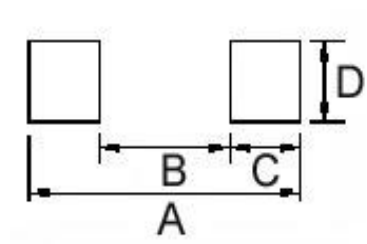
Product Identification



Shapes and Dimensions



Recommended Pattern



Dimension in mm

TYPE	A	B	C	D	E
BPSC00080845	8.3 ⁺⁰	8.3 ⁺⁰	4.5 ⁺⁰	2.5	6.3

Dimension in mm

TYPE	A	B	C	D
BPSC00080845	10.1	6.1	2.0	2.8

SMD Shielded Power Inductors – BPSC Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (kHz)	RDC ($m\Omega$) Max	Rated Current (A)	Marking
BPSC000808453R3□00	3.3	20	100	19	5.7	3R3
BPSC000808454R7□00	4.7	20	100	22	5.6	4R7
BPSC000808456R8□00	6.8	20	100	25	4.4	6R8
BPSC00080845100□00	10	20	100	36	4.0	100
BPSC00080845150□00	15	20	100	53	2.9	150
BPSC00080845220□00	22	20	100	75	2.4	220
BPSC00080845470□00	47	20	100	150	1.8	470
BPSC00080845680□00	68	20	100	240	1.5	680
BPSC00080845101□00	100	20	100	353	1.1	101

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

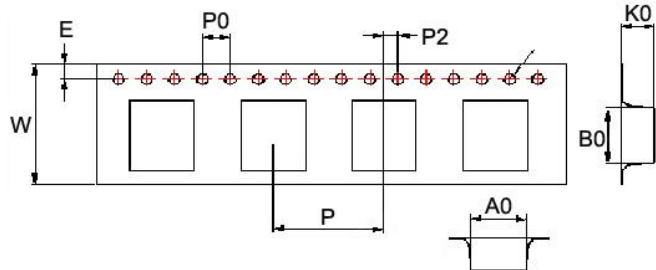
- Operating temperature range – 30°C ~ 100°C (Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Measure Equipment :
 - L : HP4284A 100kHz/1V
 - RDC : Chroma 16502
 - Rated current : HP4284+42841A

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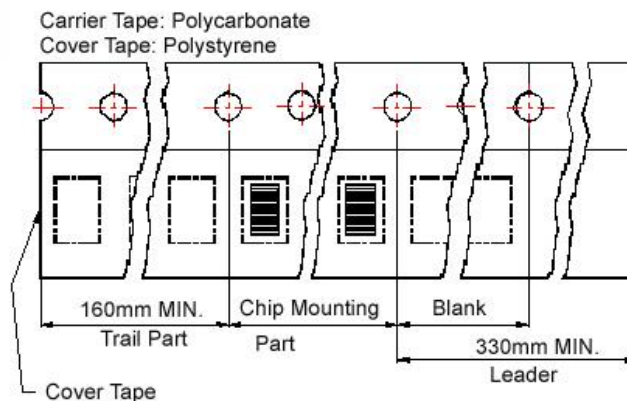
SMD Shielded Power Inductors – BPSC Series

Packaging Specifications

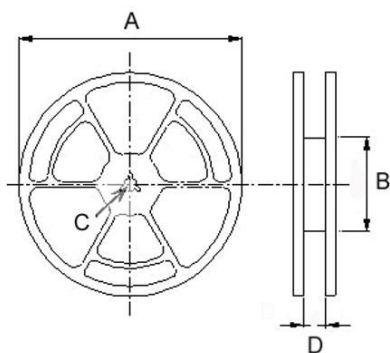
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00080845	8.4	9.9	4.8	1.55	1.75	24	12	4	2	330	100	13	24.4	1000

单击下面可查看定价，库存，交付和生命周期等信息

[>>CHILISIN\(奇力新\)](#)