



**THE DATASHEET OF
BPSC00101140100M00**



BPSC Series

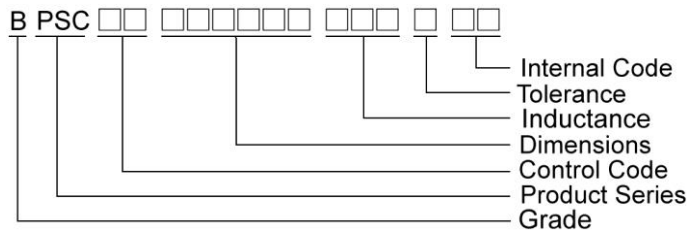
Features

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

Applications

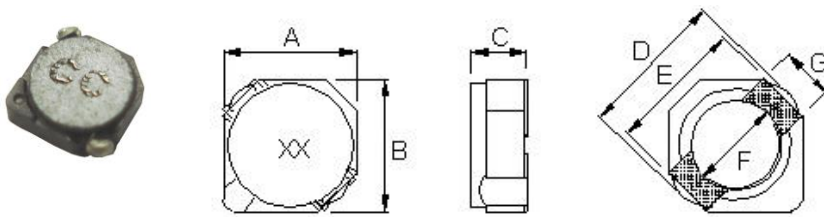
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification



Shape and Dimensions

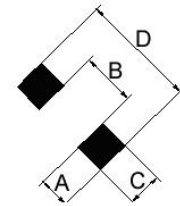
BPSC00030312/030316/030320



Dimension in mm

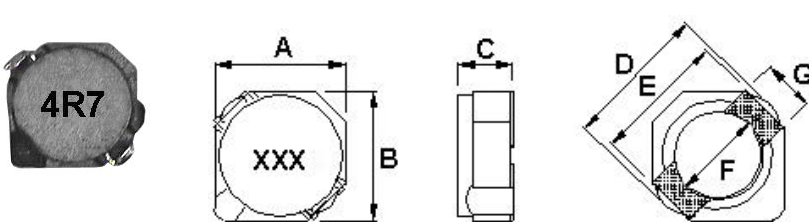
| TYPE | Shape and Dimensions | | | | | | | Recommended Pattern | | | |
|--------------|----------------------|-------------------|--------------------|-------------------|-----|-----|-----|---------------------|-----|-----|-----|
| | A | B | C | D | E | F | G | A | B | C | D |
| BPSC00030316 | 3.2 ⁺⁰ | 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 |

Recommended Pattern



Shape and Dimensions

BPSC00040412



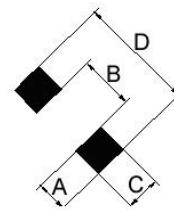
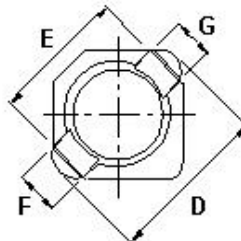
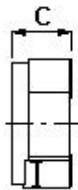
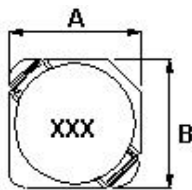
Dimension in mm

| 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

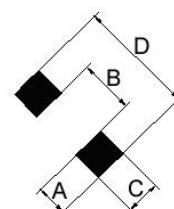
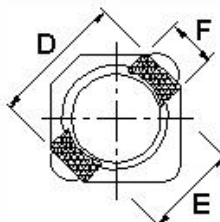
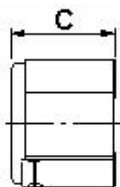
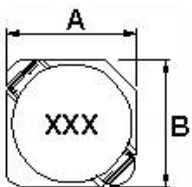


Dimensions in mm

| 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=±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 | 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%

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- 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
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 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 |

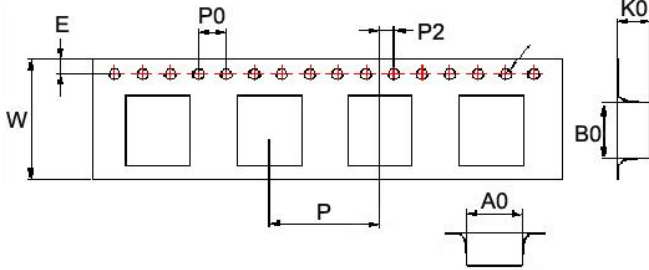
Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- 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

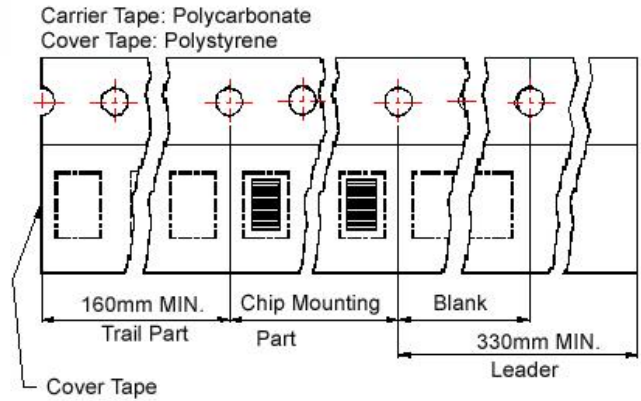
SMD Shielded Power Inductors - BPSC Series

Packaging Specifications

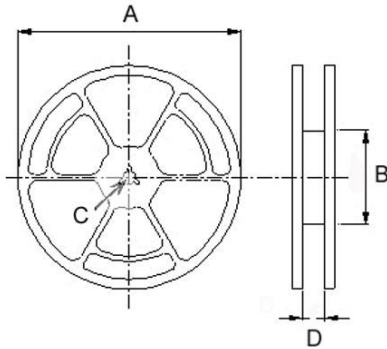
Tape Dimensions



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

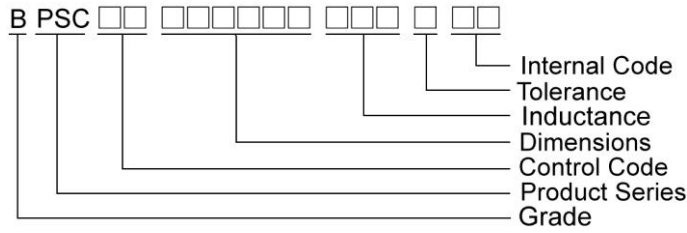
Features

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

Applications

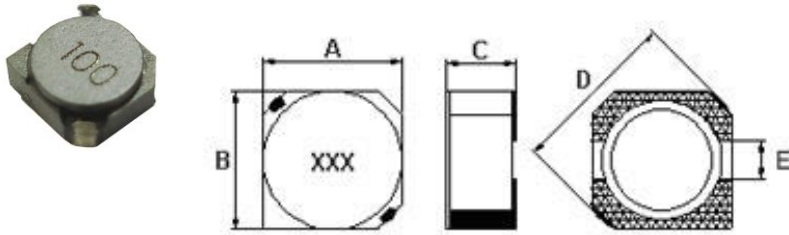
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

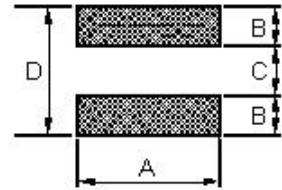


Shape and Dimensions

BPSC00040418



Recommended Pattern

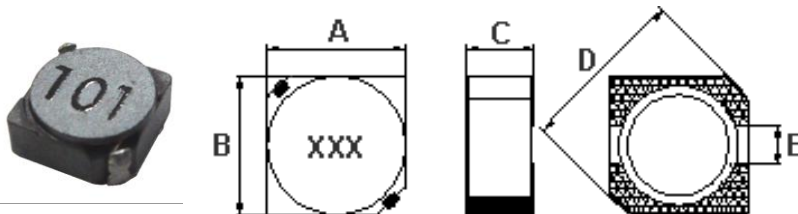


Dimensions in mm

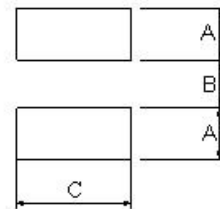
| TYPE | Shape and Dimensions | | | | | Recommended Pattern | | | |
|--------------|----------------------|-----------------|-------------------|-------------------|-----|---------------------|-----|-----|-----|
| | A | B | C | D | E | A | B | C | D |
| BPSC00404018 | 4 ⁺⁰ | 4 ⁺⁰ | 1.8 ⁺⁰ | 5.2 ⁺⁰ |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

Shape and Dimensions

BPSC00050520~050540



Recommended Pattern



Dimension in mm

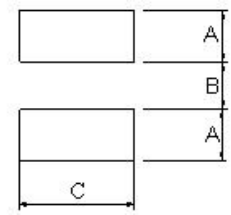
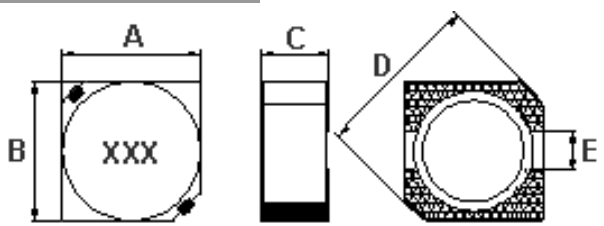
| TYPE | Shape and Dimensions | | | | | Recommended Pattern | | |
|--------------|----------------------|---------|-------------------|-------------------|-----|---------------------|-----|-----|
| | A | B | C | D | E | A | B | C |
| BPSC00050520 | 4.7±0.3 | 4.7±0.3 | 2.0 ⁺⁰ | 6.9 ⁺⁰ | 1.5 | 1.9 | 1.5 | 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

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

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

SMD Shielded Power Inductors – 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

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

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 |

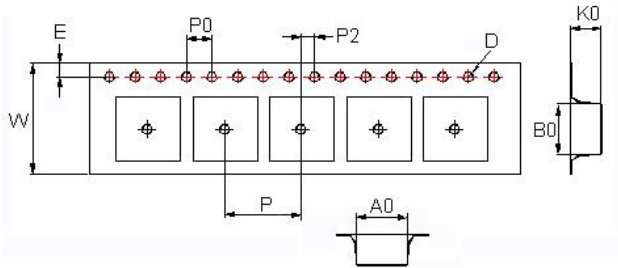
Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- Operating temperature range—30°C ~ 100°C (Including self - temperature rise)
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RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B

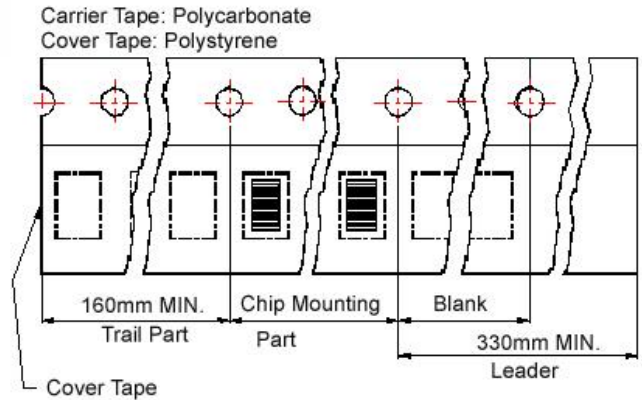
SMD Shielded Power Inductors - BPSC Series

Packaging Specifications

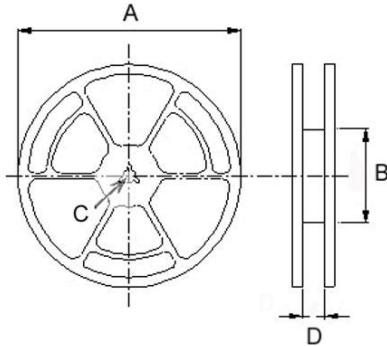
Tape Dimensions



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 | |
| 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

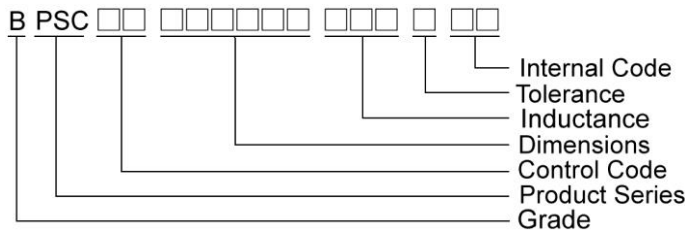
Features

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

Applications

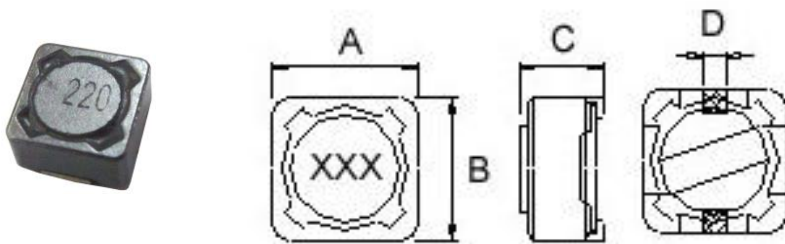
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

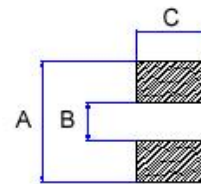


Shape and Dimensions

BPSC00070734/070745



Recommended Pattern

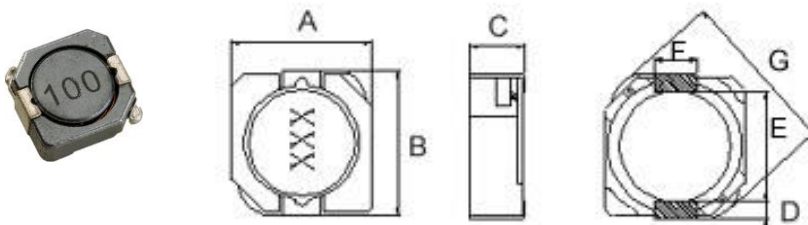


Dimension in mm

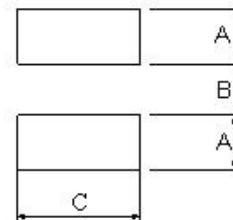
| TYPE | Shape and Dimensions | | | | Recommended Pattern | | |
|--------------|----------------------|---------|-------------------|-----|---------------------|-----|-----|
| | A | B | C | D | A | B | C |
| BPSC00070734 | 7.3±0.2 | 7.3±0.2 | 3.4 ⁺⁰ | 1.8 | 8.4 | 4.4 | 2.2 |
| BPSC00070745 | 7.3±0.2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

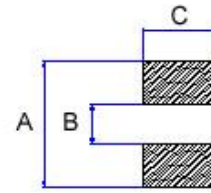
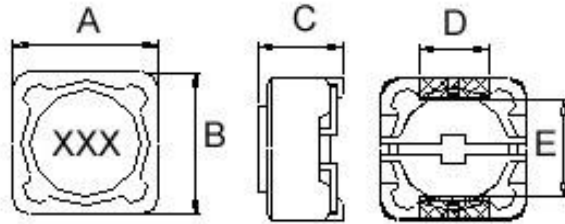
| TYPE | A | B | C | D | E | F | G | A | B | C |
|--------------|--------------------|--------------------|-------------------|-----|-----|-----|--------------------|-----|-----|-----|
| BPSC00101131 | 10.3 ⁺⁰ | 10.5 ⁺⁰ | 3.1 ⁺⁰ | 1.2 | 7.7 | 3.0 | 13.5 ⁺⁰ | 1.6 | 7.3 | 3.2 |
| BPSC00101140 | 10.3 ⁺⁰ | 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%

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- 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)
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- I rms for a 40°C temperature rise from 25°C ambient.
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 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

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 |

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RDC : Chroma 16502
Isat & I rms : HP4284+42841A or WK3260B+WK3265B

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|--------------------|--------------------------|-------------------------|-------------------|-------------------------|----------------------|---------|
| 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%

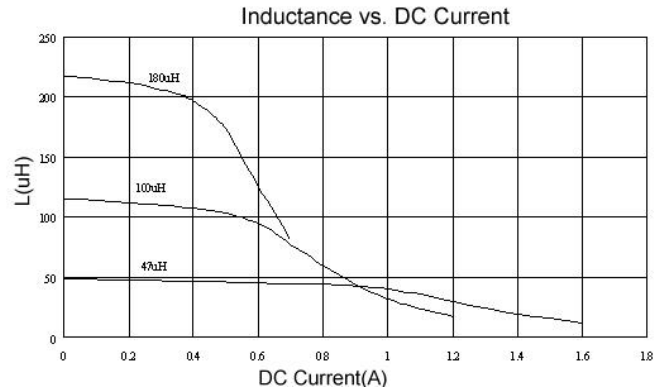
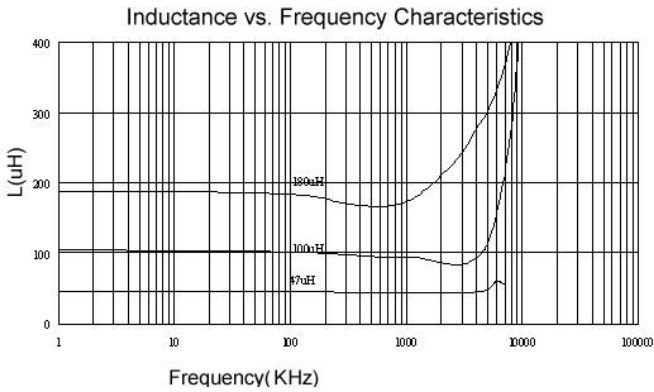
- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 25% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient
- Measure Equipment :
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
RDC : Chroma 16502
Isat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

SMD Shielded Power Inductors - BPSC Series

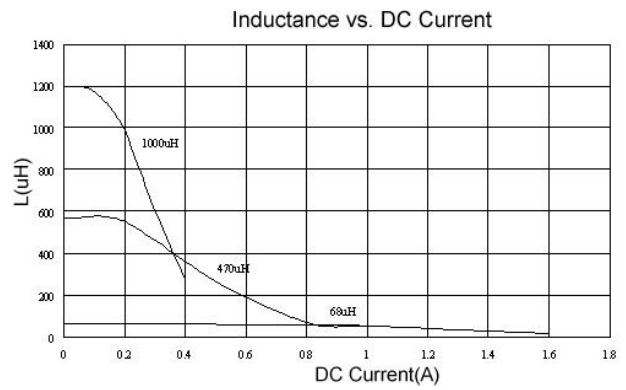
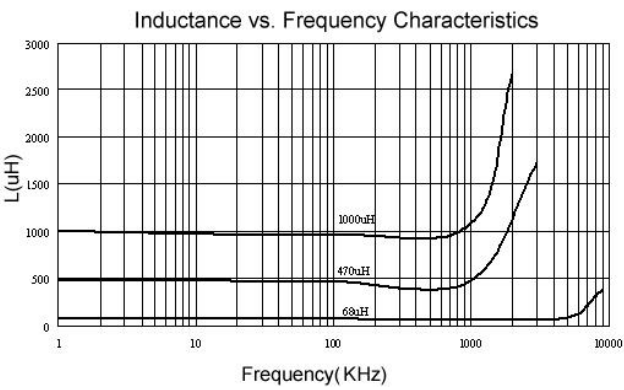
Curves of BPSC Series

Test Instruments : HP4294 Impedance / Material Analyzer

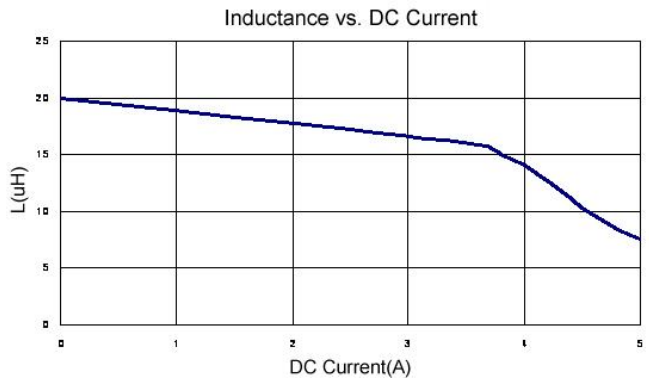
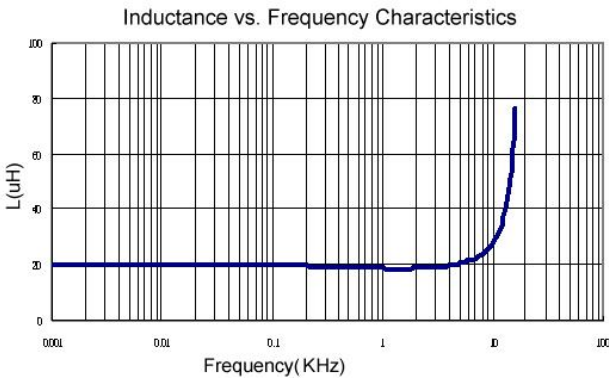
BPSC00070734



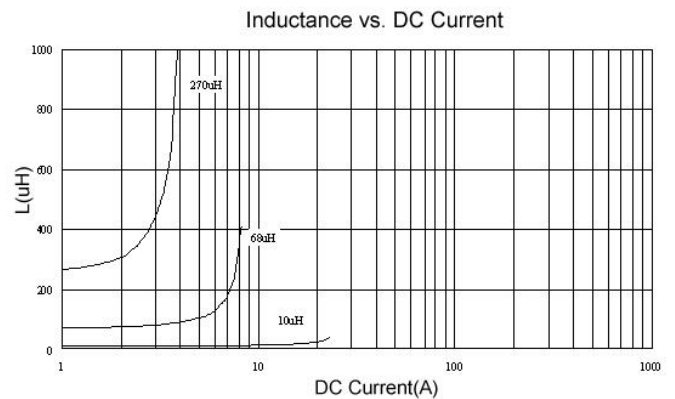
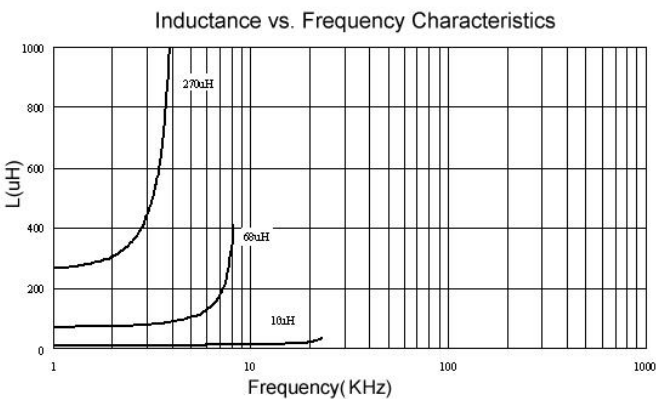
BPSC00070745



BPSC00101140



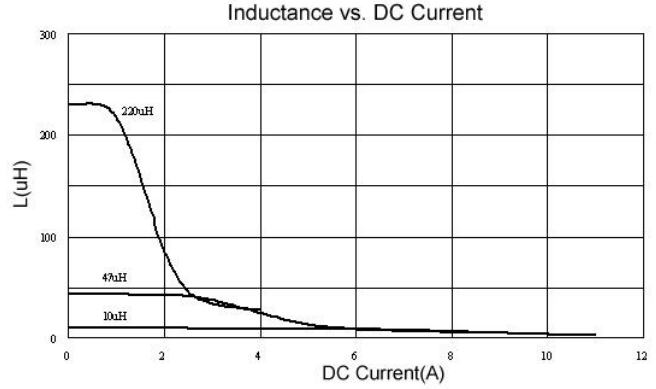
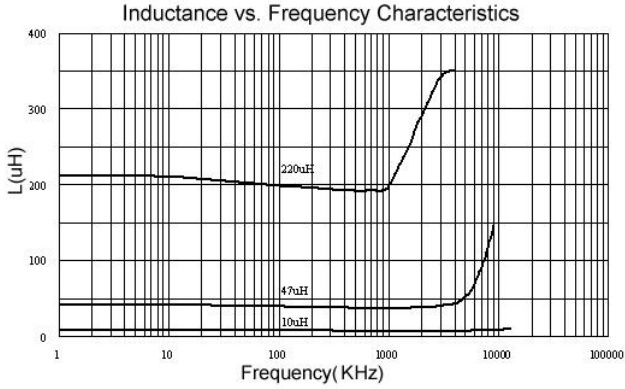
BPSC00131345



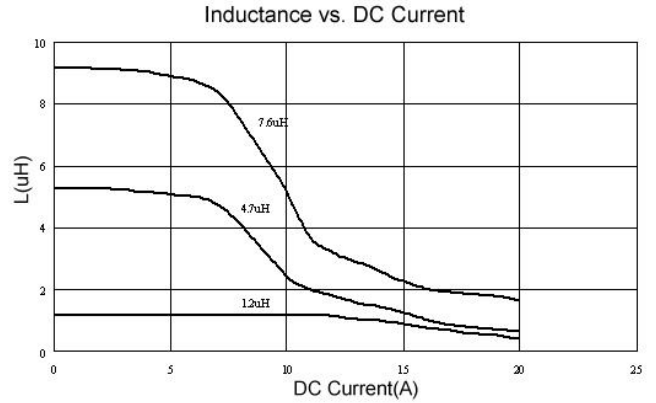
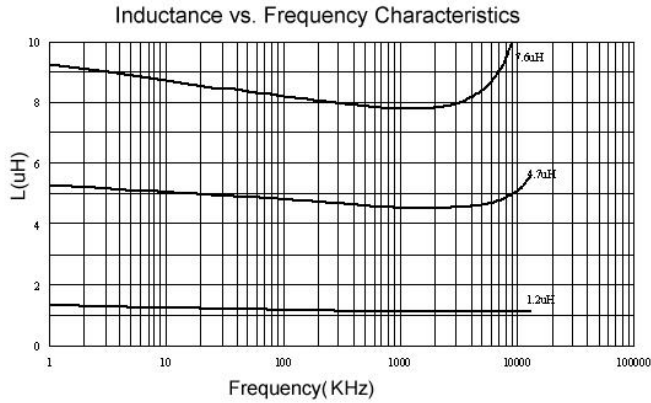
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SMD Shielded Power Inductors - BPSC Series

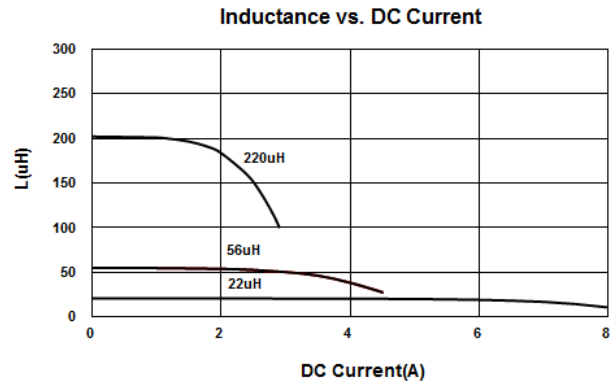
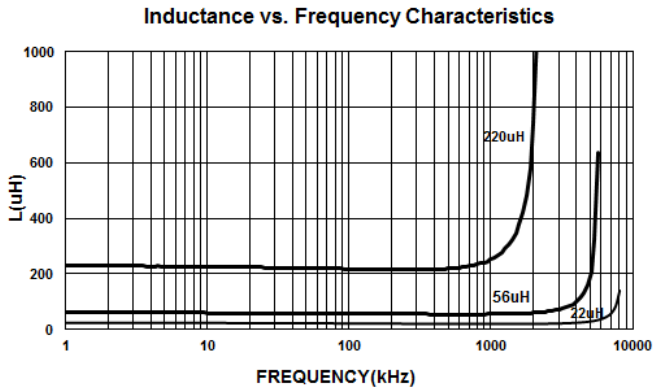
BPSC00131360



BPSC00131380



BPSC00131310

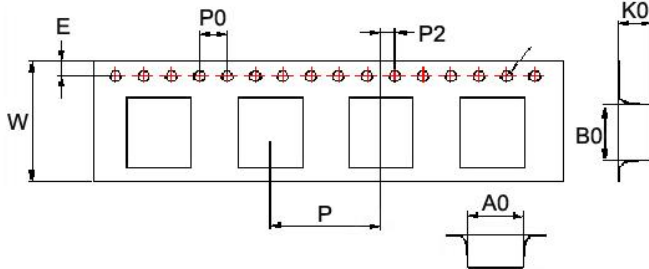


Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

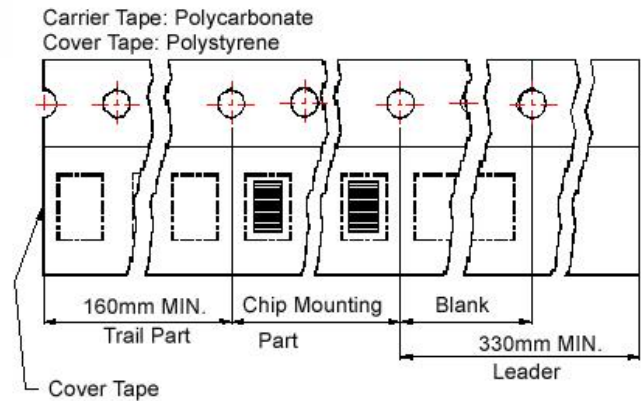
SMD Shielded Power Inductors - BPSC Series

Packaging Specifications

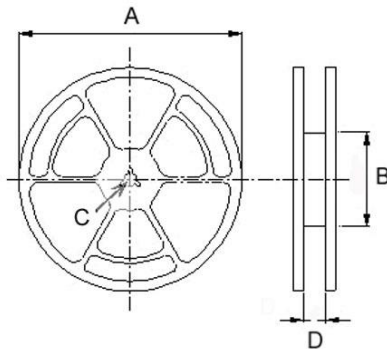
Tape Dimensions



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



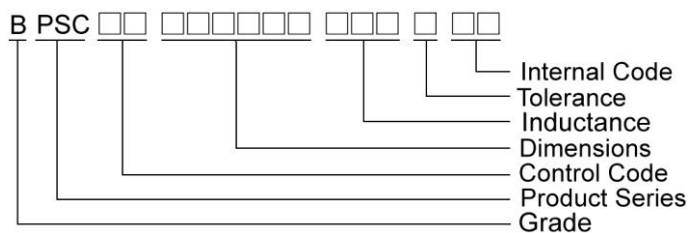
Features

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

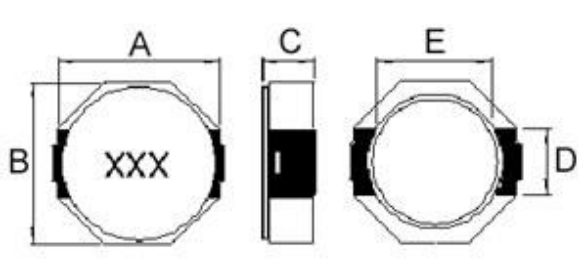
Applications

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

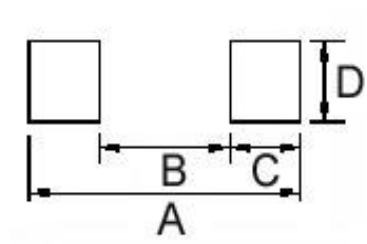
Product Identification



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 |

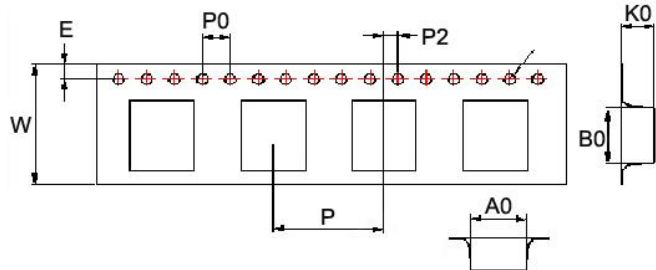
Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20%

- 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

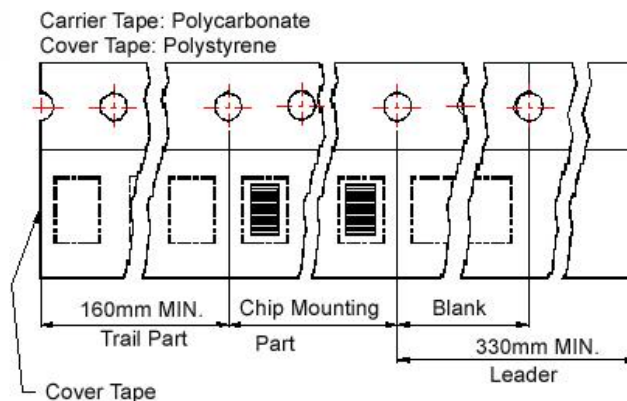
SMD Shielded Power Inductors – BPSC Series

Packaging Specifications

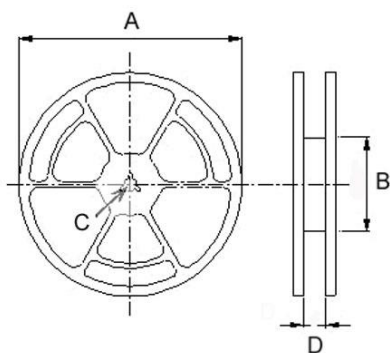
Tape Dimensions



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 |

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