

BPCI Series



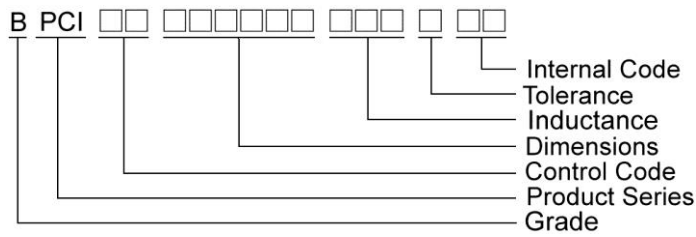
Features

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

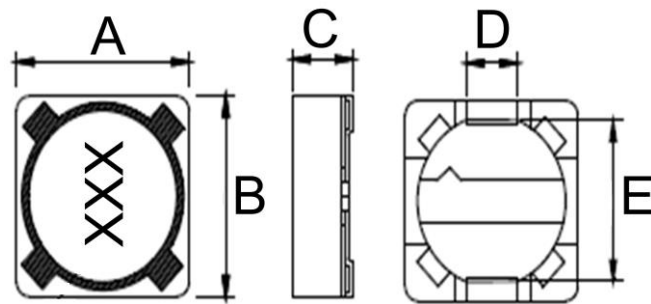
Applications

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

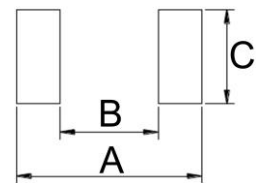
Product Identification



Shape and Dimensions



Recommended Pattern

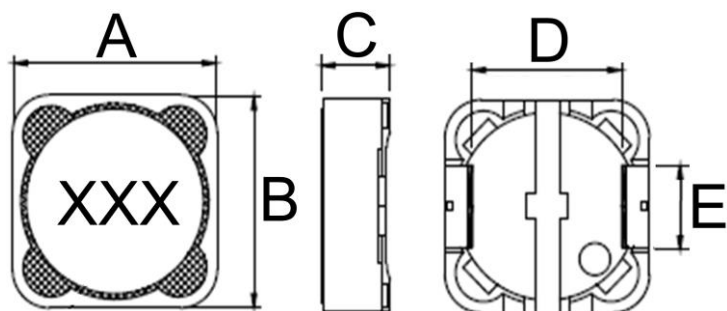


Dimensions in mm

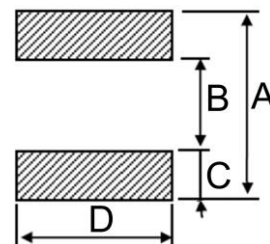
| TYPE | Shape and Dimensions | | | | | Recommended Pattern | | |
|-----------------|----------------------|---------|--------|---|-----|---------------------|-----|-----|
| | A | B | C | D | E | A | B | C |
| BPCI00070746-00 | 7.3±0.5 | 7.3±0.5 | 4.6Max | 2 | 5.4 | 8.0 | 4.8 | 2.4 |
| BPCI00070746-A0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

SMD Shielded Power Inductors – BPCI Series

Shape and Dimensions



Recommended Pattern



Dimensions in mm

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (Ω)Max | Rated Current (A)Max | Marking |
|--------------------|-----------------|----------------|----------------------|------------|----------------------|---------|
| BPCI00070746R33□00 | 0.33 | 30 | 100 | 0.0087 | 8.5 | R33 |
| BPCI00070746R47□00 | 0.47 | 30 | 100 | 0.0109 | 8 | R47 |
| BPCI000707461R0□00 | 1.0 | 30 | 100 | 0.0111 | 6.8 | 1R0 |
| BPCI000707461R2□00 | 1.2 | 30 | 100 | 0.0111 | 6.8 | 1R2 |
| BPCI000707461R5□00 | 1.5 | 30 | 100 | 0.0134 | 5.7 | 1R5 |
| BPCI000707461R8□00 | 1.8 | 30 | 100 | 0.0147 | 5.0 | 1R8 |
| BPCI000707462R2□00 | 2.2 | 30 | 100 | 0.0147 | 5.0 | 2R2 |
| BPCI000707463R3□00 | 3.3 | 20,30 | 100 | 0.0214 | 4.0 | 3R3 |
| BPCI000707464R7□00 | 4.7 | 20,30 | 100 | 0.0310 | 3.4 | 4R7 |
| BPCI000707465R6□00 | 5.6 | 20,30 | 100 | 0.0335 | 3.0 | 5R6 |
| BPCI000707466R8□00 | 6.8 | 20,30 | 100 | 0.035 | 2.3 | 6R8 |
| BPCI000707468R2□00 | 8.2 | 20,30 | 100 | 0.042 | 2.1 | 8R2 |
| BPCI00070746100□00 | 10 | 20 | 100 | 0.049 | 1.84 | 100 |
| BPCI00070746120□00 | 12 | 20 | 100 | 0.058 | 1.71 | 120 |
| BPCI00070746150□00 | 15 | 20 | 100 | 0.081 | 1.47 | 150 |
| BPCI00070746180□00 | 18 | 20 | 100 | 0.091 | 1.31 | 180 |
| BPCI00070746220□00 | 22 | 20 | 100 | 0.11 | 1.23 | 220 |
| BPCI00070746270□00 | 27 | 20 | 100 | 0.15 | 1.12 | 270 |
| BPCI00070746330□00 | 33 | 20 | 100 | 0.20 | 0.96 | 330 |
| BPCI00070746390□00 | 39 | 20 | 100 | 0.23 | 0.91 | 390 |
| BPCI00070746470□00 | 47 | 20 | 100 | 0.26 | 0.88 | 470 |
| BPCI00070746560□00 | 56 | 20 | 100 | 0.35 | 0.75 | 560 |
| BPCI00070746680□00 | 68 | 20 | 100 | 0.38 | 0.69 | 680 |
| BPCI00070746820□00 | 82 | 20 | 100 | 0.43 | 0.61 | 820 |
| BPCI00070746101□00 | 100 | 20 | 100 | 0.61 | 0.60 | 101 |
| BPCI00070746121□00 | 120 | 20 | 100 | 0.66 | 0.52 | 121 |
| BPCI00070746151□00 | 150 | 20 | 100 | 0.88 | 0.46 | 151 |
| BPCI00070746181□00 | 180 | 20 | 100 | 0.98 | 0.42 | 181 |
| BPCI00070746221□00 | 220 | 20 | 100 | 1.17 | 0.36 | 221 |
| BPCI00070746271□00 | 270 | 20 | 100 | 1.64 | 0.34 | 271 |
| BPCI00070746331□00 | 330 | 20 | 100 | 1.86 | 0.32 | 331 |
| BPCI00070746391□00 | 390 | 20 | 100 | 2.85 | 0.29 | 391 |
| BPCI00070746471□00 | 470 | 20 | 100 | 3.01 | 0.26 | 471 |
| BPCI00070746561□00 | 560 | 20 | 100 | 3.62 | 0.23 | 561 |
| BPCI00070746681□00 | 680 | 20 | 100 | 4.63 | 0.22 | 681 |
| BPCI00070746821□00 | 820 | 20 | 100 | 5.2 | 0.20 | 821 |
| BPCI00070746102□00 | 1000 | 20 | 100 | 6.0 | 0.18 | 102 |

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

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (Ω)Max | Isat (A)Max | Irms (A)Typ | Marking |
|--------------------|-----------------|----------------|----------------------|------------|-------------|-------------|---------|
| BPCI000707461R5□A0 | 1.5 | 30 | 100 | 0.0089 | 7.0 | 6.6 | 1R5 |
| BPCI000707461R8□A0 | 1.8 | 30 | 100 | 0.0105 | 6.7 | 5.9 | 1R8 |
| BPCI000707462R2□A0 | 2.2 | 30 | 100 | 0.0126 | 6.5 | 5.0 | 2R2 |
| BPCI000707463R3□A0 | 3.3 | 20,30 | 100 | 0.0169 | 5.9 | 4.8 | 3R3 |
| BPCI000707464R7□A0 | 4.7 | 20,30 | 100 | 0.0235 | 4.5 | 4.2 | 4R7 |
| BPCI000707466R8□A0 | 6.8 | 20,30 | 100 | 0.0282 | 4.3 | 4.0 | 6R8 |
| BPCI00070746100□A0 | 10 | 20,30 | 100 | 0.0489 | 3.2 | 3.0 | 100 |
| BPCI00070746150□A0 | 15 | 20,30 | 100 | 0.0637 | 2.48 | 2.11 | 150 |
| BPCI00070746220□A0 | 22 | 20,30 | 100 | 0.0925 | 2.13 | 1.75 | 220 |
| BPCI00070746270□A0 | 27 | 20,30 | 100 | 0.115 | 1.95 | 1.59 | 270 |
| BPCI00070746330□A0 | 33 | 20 | 100 | 0.143 | 1.73 | 1.41 | 330 |
| BPCI00070746470□A0 | 47 | 20 | 100 | 0.216 | 1.41 | 1.15 | 470 |
| BPCI00070746560□A0 | 56 | 20,30 | 100 | 0.260 | 1.30 | 1.14 | 560 |
| BPCI00070746680□A0 | 68 | 20 | 100 | 0.291 | 1.20 | 1.12 | 680 |
| BPCI00070746101□A0 | 100 | 20 | 100 | 0.383 | 0.99 | 0.86 | 101 |
| BPCI00070746151□A0 | 150 | 20 | 100 | 0.58 | 0.83 | 0.80 | 151 |
| BPCI00070746181□A0 | 180 | 20,30 | 100 | 0.77 | 0.80 | 0.73 | 181 |
| BPCI00070746221□A0 | 220 | 20,30 | 100 | 0.92 | 0.78 | 0.65 | 221 |
| BPCI00070746331□A0 | 330 | 20 | 100 | 1.41 | 0.54 | 0.45 | 331 |
| BPCI00070746471□A0 | 470 | 20 | 100 | 2.44 | 0.49 | 0.40 | 471 |
| BPCI00070746102□A0 | 1000 | 20 | 100 | 3.89 | 0.31 | 0.27 | 102 |

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC(Ω) Max(Typ) | Isat (A)Max | Irms (A)Typ | Marking |
|--------------------|-----------------|----------------|----------------------|-----------------|-------------|-------------|---------|
| BPCI001010401R0□00 | 1.0 | 30 | 100 | 0.0115(0.0085) | 12 | 12 | 1R0 |
| BPCI001010401R5□00 | 1.5 | 30 | 100 | 0.0162(0.0120) | 11 | 10.8 | 1R5 |
| BPCI001010401R8□00 | 1.8 | 30 | 100 | 0.0191(0.0141) | 10.2 | 10 | 1R8 |
| BPCI001010402R5□00 | 2.5 | 30 | 100 | 0.0257(0.019) | 8.5 | 8.3 | 2R5 |
| BPCI001010403R3□00 | 3.3 | 30 | 100 | 0.0365(0.027) | 7.6 | 7.0 | 3R3 |
| BPCI001010404R7□00 | 4.7 | 30 | 100 | 0.0392(0.029) | 7.0 | 6.2 | 4R7 |
| BPCI001010405R2□00 | 5.2 | 30 | 100 | 0.0446(0.033) | 6.5 | 6.0 | 5R2 |
| BPCI001010406R2□00 | 6.2 | 20,30 | 100 | 0.0513(0.038) | 5.6 | 5.0 | 6R2 |
| BPCI001010407R3□00 | 7.3 | 20,30 | 100 | 0.0608(0.045) | 4.8 | 4.5 | 7R3 |
| BPCI00101040100□00 | 10 | 20,30 | 100 | 0.0770(0.057) | 4.4 | 3.9 | 100 |
| BPCI00101040150□00 | 15 | 20,30 | 100 | 0.117(0.087) | 3.6 | 3.3 | 150 |
| BPCI00101040220□00 | 22 | 20,30 | 100 | 0.159(0.122) | 3.2 | 2.5 | 220 |
| BPCI00101040330□00 | 33 | 20,30 | 100 | 0.242(0.186) | 2.5 | 2.0 | 330 |
| BPCI00101040470□00 | 47 | 20,30 | 100 | 0.358(0.275) | 2.1 | 1.65 | 470 |
| BPCI00101040560□00 | 56 | 20,30 | 100 | 0.408(0.314) | 1.9 | 1.4 | 560 |
| BPCI00101040680□00 | 68 | 20,30 | 100 | 0.477(0.367) | 1.8 | 1.3 | 680 |
| BPCI00101040101□00 | 100 | 20,30 | 100 | 0.698(0.537) | 1.45 | 1.1 | 101 |
| BPCI00101040151□00 | 150 | 20,30 | 100 | 1.090(0.845) | 1.25 | 0.9 | 151 |
| BPCI00101040221□00 | 220 | 20,30 | 100 | 1.586(1.2) | 0.9 | 0.8 | 221 |
| BPCI00101040331□00 | 330 | 20,30 | 100 | 2.3(1.77) | 0.8 | 0.6 | 331 |

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (Ω)Max | Isat (A)Max | Irms (A)Typ | Marking |
|--------------------|-----------------|----------------|----------------------|------------|-------------|-------------|---------|
| BPCI001212101R0□00 | 1.0 | 30 | 100 | 0.0055 | 19.9 | 11.6 | 1R0 |
| BPCI001212101R8□00 | 1.8 | 30 | 100 | 0.0065 | 13.4 | 11.0 | 1R8 |
| BPCI001212102R0□00 | 2.0 | 30 | 100 | 0.0070 | 12.9 | 10.7 | 2R0 |
| BPCI001212102R2□00 | 2.2 | 20,30 | 100 | 0.0070 | 12.9 | 10.7 | 2R2 |
| BPCI001212102R5□00 | 2.5 | 30 | 100 | 0.0080 | 12.16 | 10.3 | 2R5 |
| BPCI001212103R5□00 | 3.5 | 30 | 100 | 0.0097 | 12.0 | 8.70 | 3R5 |
| BPCI001212103R6□00 | 3.6 | 30 | 100 | 0.0100 | 12.0 | 8.70 | 3R6 |
| BPCI001212104R7□00 | 4.7 | 20,30 | 100 | 0.0110 | 11.0 | 8.40 | 4R7 |
| BPCI001212105R8□00 | 5.8 | 30 | 100 | 0.0113 | 10.5 | 7.60 | 5R8 |
| BPCI001212106R8□00 | 6.8 | 20,30 | 100 | 0.0115 | 10.0 | 7.10 | 6R8 |
| BPCI001212107R5□00 | 7.5 | 20,30 | 100 | 0.0140 | 8.48 | 6.80 | 7R5 |
| BPCI001212108R2□00 | 8.2 | 20,30 | 100 | 0.0160 | 8.30 | 6.70 | 8R2 |
| BPCI00121210100□00 | 10 | 20,30 | 100 | 0.0170 | 8.20 | 6.95 | 100 |
| BPCI00121210120□00 | 12 | 20,30 | 100 | 0.0185 | 7.04 | 6.20 | 120 |
| BPCI00121210150□00 | 15 | 20,30 | 100 | 0.025 | 5.80 | 5.22 | 150 |
| BPCI00121210220□00 | 22 | 20,30 | 100 | 0.029 | 5.12 | 4.95 | 220 |
| BPCI00121210330□00 | 33 | 20,30 | 100 | 0.053 | 4.25 | 3.60 | 330 |
| BPCI00121210470□00 | 47 | 20,30 | 100 | 0.063 | 3.60 | 3.45 | 470 |
| BPCI00121210560□00 | 56 | 20,30 | 100 | 0.068 | 2.85 | 2.95 | 560 |
| BPCI00121210680□00 | 68 | 20,30 | 100 | 0.093 | 2.76 | 2.85 | 680 |
| BPCI00121210820□00 | 82 | 30 | 100 | 0.099 | 2.62 | 2.60 | 820 |
| BPCI00121210850□00 | 85 | 30 | 100 | 0.120 | 2.60 | 2.60 | 850 |
| BPCI00121210101□00 | 100 | 20 | 100 | 0.126 | 2.31 | 2.45 | 101 |
| BPCI00121210121□00 | 120 | 20 | 100 | 0.154 | 2.05 | 2.20 | 121 |
| BPCI00121210151□00 | 150 | 20 | 100 | 0.174 | 1.80 | 1.90 | 151 |
| BPCI00121210181□00 | 180 | 20 | 100 | 0.191 | 1.66 | 1.86 | 181 |
| BPCI00121210221□00 | 220 | 20 | 100 | 0.246 | 1.64 | 1.72 | 221 |
| BPCI00121210331□00 | 330 | 20 | 100 | 0.386 | 1.28 | 1.28 | 331 |
| BPCI00121210391□00 | 390 | 20 | 100 | 0.440 | 1.20 | 1.27 | 391 |
| BPCI00121210471□00 | 470 | 20 | 100 | 0.471 | 1.06 | 1.25 | 471 |
| BPCI00121210561□00 | 560 | 20 | 100 | 0.650 | 1.01 | 0.98 | 561 |
| BPCI00121210681□00 | 680 | 20 | 100 | 0.730 | 0.83 | 0.96 | 681 |
| BPCI00121210821□00 | 820 | 20 | 100 | 0.824 | 0.81 | 0.94 | 821 |
| BPCI00121210102□00 | 1000 | 20 | 100 | 1.22 | 0.70 | 0.78 | 102 |
| BPCI00121210122□00 | 1200 | 20 | 100 | 1.33 | 0.64 | 0.79 | 122 |
| BPCI00121210152□00 | 1500 | 20 | 100 | 1.99 | 0.56 | 0.58 | 152 |
| BPCI00121210182□00 | 1800 | 20 | 100 | 2.18 | 0.48 | 0.54 | 182 |
| BPCI00121210222□00 | 2200 | 20 | 100 | 2.58 | 0.43 | 0.52 | 222 |
| BPCI00121210332□00 | 3300 | 20 | 100 | 4.6 | 0.30 | 0.40 | 332 |

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

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (Ω)Max | Isat (A)Max | Irms (A)Typ | Marking |
|--------------------|-----------------|----------------|----------------------|------------|-------------|-------------|---------|
| BPCI001212106R8□A0 | 6.8 | 20,30 | 100 | 0.0140 | 12.8 | 8.4 | 6R8 |
| BPCI00121210100□A0 | 10 | 20,30 | 100 | 0.0183 | 11.5 | 7.5 | 100 |
| BPCI00121210150□A0 | 15 | 20,30 | 100 | 0.0280 | 8.6 | 6.0 | 150 |
| BPCI00121210330□A0 | 33 | 20 | 100 | 0.0450 | 5.5 | 4.2 | 330 |
| BPCI00121210470□A0 | 47 | 20 | 100 | 0.0600 | 4.5 | 3.8 | 470 |
| BPCI00121210560□A0 | 56 | 20 | 100 | 0.0700 | 4.0 | 3.4 | 560 |
| BPCI00121210680□A0 | 68 | 20 | 100 | 0.0885 | 3.6 | 3.2 | 680 |
| BPCI00121210101□A0 | 100 | 20 | 100 | 0.110 | 3.1 | 2.5 | 101 |
| BPCI00121210221□A0 | 220 | 20 | 100 | 0.270 | 2.5 | 1.8 | 221 |
| BPCI00121210271□A0 | 270 | 20 | 100 | 0.330 | 2.1 | 1.6 | 271 |
| BPCI00121210301□A0 | 300 | 20 | 100 | 0.340 | 1.8 | 1.45 | 301 |
| BPCI00121210331□A0 | 330 | 20 | 100 | 0.340 | 1.8 | 1.45 | 331 |
| BPCI00121210681□A0 | 680 | 20,30 | 100 | 0.675 | 1.6 | 1.25 | 681 |
| BPCI00121210821□A0 | 820 | 20 | 100 | 1.00 | 1.1 | 0.85 | 821 |

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

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

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

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

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

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

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated Current : Based on inductance change (ΔL/Lo : drop 10% Max.) @ ambient temp. 25°C and Based on temperature rise (ΔT : 40°C Typ.)

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (Ω)Max | Rated Current (A)Max | Marking |
|--------------------|-----------------|----------------|----------------------|------------|----------------------|---------|
| BPCI001212801R0□00 | 1.0 | 30 | 100 | 0.0070 | 9.8 | 1R0 |
| BPCI001212801R2□00 | 1.2 | 30 | 100 | 0.0070 | 9.8 | 1R2 |
| BPCI001212802R2□00 | 2.2 | 20,30 | 100 | 0.0115 | 8.0 | 2R2 |
| BPCI001212802R4□00 | 2.4 | 20,30 | 100 | 0.0115 | 8.0 | 2R4 |
| BPCI001212802R5□00 | 2.5 | 20,30 | 100 | 0.0115 | 8.0 | 2R5 |
| BPCI001212803R3□00 | 3.3 | 20,30 | 100 | 0.0135 | 7.5 | 3R3 |
| BPCI001212803R5□00 | 3.5 | 20,30 | 100 | 0.0135 | 7.5 | 3R5 |
| BPCI001212804R6□00 | 4.6 | 30 | 100 | 0.0158 | 6.8 | 4R6 |
| BPCI001212804R7□00 | 4.7 | 20,30 | 100 | 0.0158 | 6.8 | 4R7 |
| BPCI001212805R6□00 | 5.6 | 20,30 | 100 | 0.0176 | 6.6 | 5R6 |
| BPCI001212806R1□00 | 6.1 | 20,30 | 100 | 0.0176 | 6.6 | 6R1 |
| BPCI001212806R4□00 | 6.4 | 20,30 | 100 | 0.0190 | 6.3 | 6R4 |
| BPCI001212806R8□00 | 6.8 | 20,30 | 100 | 0.0190 | 6.3 | 6R8 |
| BPCI001212807R6□00 | 7.6 | 20,30 | 100 | 0.0200 | 5.9 | 7R6 |
| BPCI00121280100□00 | 10 | 20,30 | 100 | 0.0216 | 5.4 | 100 |
| BPCI00121280120□00 | 12 | 20,30 | 100 | 0.0243 | 4.9 | 120 |
| BPCI00121280150□00 | 15 | 20,30 | 100 | 0.0270 | 4.5 | 150 |
| BPCI00121280180□00 | 18 | 20,30 | 100 | 0.0392 | 3.9 | 180 |
| BPCI00121280220□00 | 22 | 20,30 | 100 | 0.0432 | 3.6 | 220 |
| BPCI00121280270□00 | 27 | 20,30 | 100 | 0.0459 | 3.4 | 270 |
| BPCI00121280330□00 | 33 | 20,30 | 100 | 0.0648 | 3.0 | 330 |
| BPCI00121280390□00 | 39 | 20,30 | 100 | 0.0729 | 2.75 | 390 |
| BPCI00121280470□00 | 47 | 20,30 | 100 | 0.10 | 2.50 | 470 |
| BPCI00121280560□00 | 56 | 20,30 | 100 | 0.11 | 2.35 | 560 |
| BPCI00121280680□00 | 68 | 20,30 | 100 | 0.14 | 2.10 | 680 |
| BPCI00121280750□00 | 75 | 20,30 | 100 | 0.15 | 2.00 | 750 |
| BPCI00121280820□00 | 82 | 20,30 | 100 | 0.16 | 1.95 | 820 |
| BPCI00121280101□00 | 100 | 10,20 | 100 | 0.22 | 1.70 | 101 |
| BPCI00121280121□00 | 120 | 10,20 | 100 | 0.25 | 1.60 | 121 |
| BPCI00121280151□00 | 150 | 10,20 | 100 | 0.28 | 1.42 | 151 |
| BPCI00121280181□00 | 180 | 10,20 | 100 | 0.35 | 1.30 | 181 |
| BPCI00121280201□00 | 200 | 20 | 100 | 0.39 | 1.16 | 201 |
| BPCI00121280221□00 | 220 | 10,20 | 100 | 0.39 | 1.16 | 221 |
| BPCI00121280271□00 | 270 | 10,20 | 100 | 0.56 | 1.06 | 271 |
| BPCI00121280331□00 | 330 | 10,20 | 100 | 0.64 | 0.95 | 331 |
| BPCI00121280391□00 | 390 | 10,20 | 100 | 0.70 | 0.88 | 391 |

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated Current : Based on inductance change (ΔL/Lo : drop 10% Max.) @ ambient temp. 25°C and Based on temperature rise (ΔT : 40°C Typ.)

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

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

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (Ω)Max | Isat (A)Max | Irms (A)Typ | Marking |
|--------------------|-----------------|----------------|----------------------|------------|-------------|-------------|---------|
| BPCI001212801R0□A0 | 1.0 | 30 | 100 | 0.0055 | 18 | 15 | 1R0 |
| BPCI001212802R2□A0 | 2.2 | 30 | 100 | 0.0062 | 16 | 13 | 2R2 |
| BPCI001212803R3□A0 | 3.3 | 30 | 100 | 0.0135 | 13.5 | 7.5 | 3R3 |
| BPCI001212804R5□A0 | 4.5 | 20,30 | 100 | 0.0158 | 11.5 | 6.8 | 4R5 |
| BPCI001212804R7□A0 | 4.7 | 20,30 | 100 | 0.0158 | 11.5 | 6.8 | 4R7 |
| BPCI001212805R6□A0 | 5.6 | 20,30 | 100 | 0.0168 | 10.5 | 6.7 | 5R6 |
| BPCI001212806R5□A0 | 6.5 | 20,30 | 100 | 0.0176 | 9.5 | 6.6 | 6R5 |
| BPCI001212806R8□A0 | 6.8 | 20,30 | 100 | 0.0176 | 9.5 | 6.6 | 6R8 |
| BPCI00121280100□A0 | 10 | 20,30 | 100 | 0.216 | 7.8 | 5.4 | 100 |
| BPCI00121280120□A0 | 12 | 20,30 | 100 | 0.0243 | 7.3 | 4.9 | 120 |
| BPCI00121280130□A0 | 13 | 20,30 | 100 | 0.0243 | 7.3 | 4.9 | 130 |
| BPCI00121280150□A0 | 15 | 20,30 | 100 | 0.0270 | 6.5 | 4.5 | 150 |
| BPCI00121280180□A0 | 18 | 20,30 | 100 | 0.0392 | 6.0 | 3.9 | 180 |
| BPCI00121280220□A0 | 22 | 20,30 | 100 | 0.0432 | 5.3 | 3.6 | 220 |
| BPCI00121280270□A0 | 27 | 20,30 | 100 | 0.0531 | 4.8 | 3.3 | 270 |
| BPCI00121280330□A0 | 33 | 20,30 | 100 | 0.0648 | 4.3 | 3.0 | 330 |
| BPCI00121280390□A0 | 39 | 20,30 | 100 | 0.071 | 4.1 | 2.8 | 390 |
| BPCI00121280470□A0 | 47 | 20,30 | 100 | 0.10 | 3.8 | 2.5 | 470 |
| BPCI00121280560□A0 | 56 | 20,30 | 100 | 0.11 | 3.4 | 2.35 | 560 |
| BPCI00121280680□A0 | 68 | 20,30 | 100 | 0.14 | 3.1 | 2.10 | 680 |
| BPCI00121280820□A0 | 82 | 20,30 | 100 | 0.16 | 2.7 | 1.95 | 820 |
| BPCI00121280101□A0 | 100 | 20,30 | 100 | 0.22 | 2.5 | 1.70 | 101 |
| BPCI00121280121□A0 | 120 | 20,30 | 100 | 0.25 | 2.3 | 1.60 | 121 |
| BPCI00121280151□A0 | 150 | 20,30 | 100 | 0.28 | 2.0 | 1.42 | 151 |
| BPCI00121280181□A0 | 180 | 20,30 | 100 | 0.35 | 1.9 | 1.30 | 181 |
| BPCI00121280201□A0 | 200 | 20,30 | 100 | 0.37 | 1.8 | 1.23 | 201 |
| BPCI00121280221□A0 | 220 | 20,30 | 100 | 0.39 | 1.7 | 1.16 | 221 |
| BPCI00121280271□A0 | 270 | 20,30 | 100 | 0.51 | 1.6 | 1.06 | 271 |
| BPCI00121280281□A0 | 280 | 20,30 | 100 | 0.51 | 1.6 | 1.06 | 281 |
| BPCI00121280331□A0 | 330 | 20,30 | 100 | 0.64 | 1.4 | 0.95 | 331 |
| BPCI00121280391□A0 | 390 | 20,30 | 100 | 0.70 | 1.3 | 0.88 | 391 |
| BPCI00121280471□A0 | 470 | 20,30 | 100 | 0.98 | 1.1 | 0.79 | 471 |
| BPCI00121280561□A0 | 560 | 20,30 | 100 | 1.03 | 1.05 | 0.75 | 561 |
| BPCI00121280681□A0 | 680 | 20 | 100 | 1.10 | 1.0 | 0.70 | 681 |
| BPCI00121280801□A0 | 800 | 20 | 100 | 1.29 | 0.9 | 0.67 | 801 |
| BPCI00121280821□A0 | 820 | 20 | 100 | 1.29 | 0.9 | 0.67 | 821 |

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

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

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

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

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

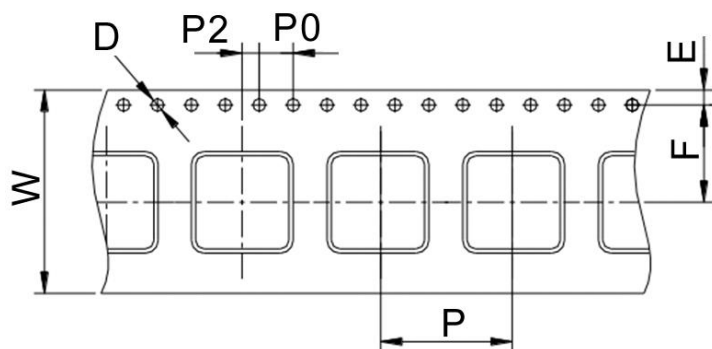
Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

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

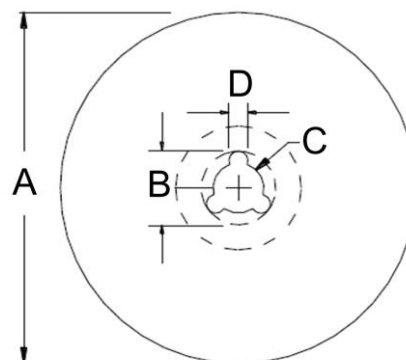
SMD Shielded Power Inductors – BPCI Series

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

| TYPE | Tape Dimensions | | | | | | | Reel Dimensions | | | | Quantity PCS / Reel |
|--------------|-----------------|-----|------|------|----|----|----|-----------------|----|----|---|------------------------|
| | W | D | E | F | P | P0 | P2 | A | B | C | D | |
| BPCI00070746 | 16 | 1.5 | 1.75 | 7.5 | 12 | 4 | 2 | 330 | 20 | 13 | 2 | 1000 |
| BPCI00101040 | 24 | 1.5 | 1.75 | 11.5 | 16 | 4 | 2 | 330 | 20 | 13 | 2 | 900 |
| BPCI00121250 | 24 | 1.5 | 1.75 | 11.5 | 16 | 4 | 2 | 330 | 20 | 13 | 2 | 500 |
| BPCI00121260 | 24 | 1.5 | 1.75 | 11.5 | 16 | 4 | 2 | 330 | 20 | 13 | 2 | 500 |
| BPCI00121280 | 24 | 1.5 | 1.75 | 11.5 | 16 | 4 | 2 | 330 | 20 | 13 | 2 | 500 |
| BPCI00121210 | 24 | 1.5 | 1.75 | 11.5 | 24 | 4 | 2 | 330 | 20 | 13 | 2 | 250 |

单击下面可查看定价，库存，交付和生命周期等信息

[>>CHILISIN\(奇力新\)](#)