

DATA SHEET

INDUCTOR

Power Inductors

BPDx Series

RoHS compliant & Halogen Free



SMD Shielded Power Inductors – BPDx Series

BPDx Series



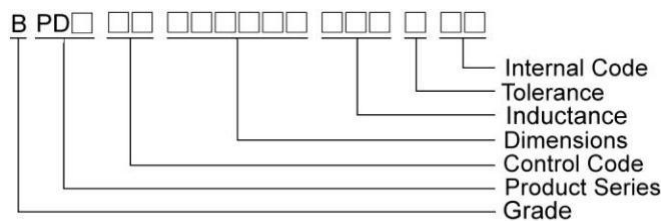
Features

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

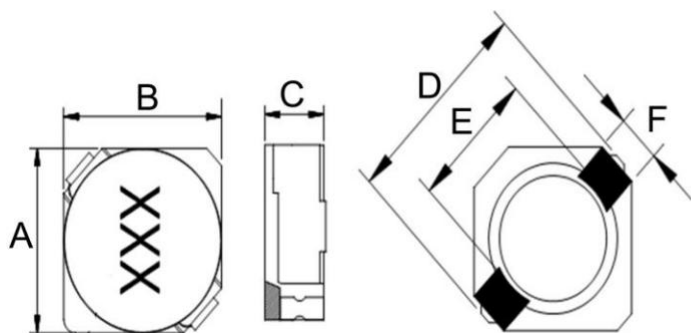
Applications

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

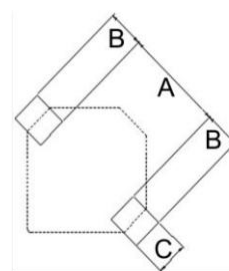
Product Identification



Shape and Dimensions



Recommended Pattern

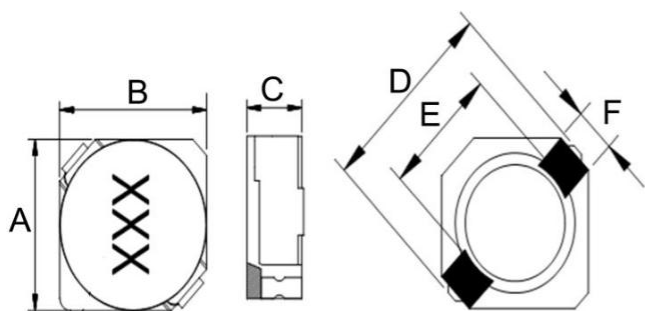


Dimensions in mm

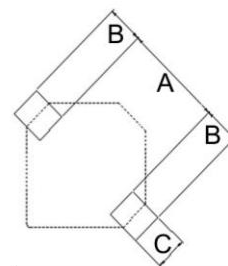
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDC00030310	3.0±0.2	3.0±0.2	1.0Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDx00030312	3.0±0.2	3.0±0.2	1.2Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDS00030316	3.0±0.2	3.0±0.2	1.55Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDx00030320	3.0±0.2	3.0±0.2	2.0Max	4.5Max	2.1	1.0	1.7	1.3	1.3

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Shape and Dimensions

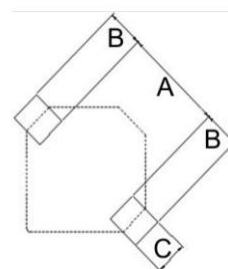
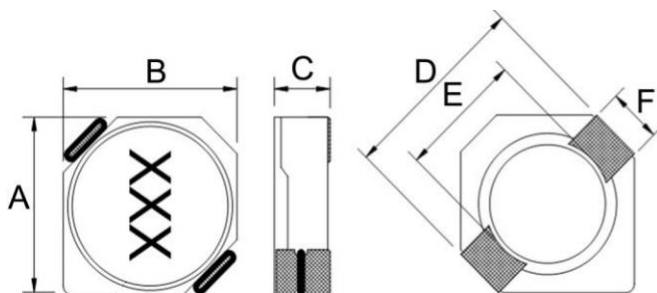


Recommended Pattern



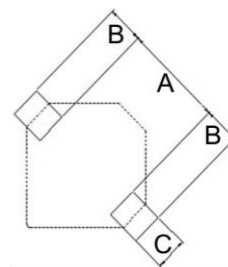
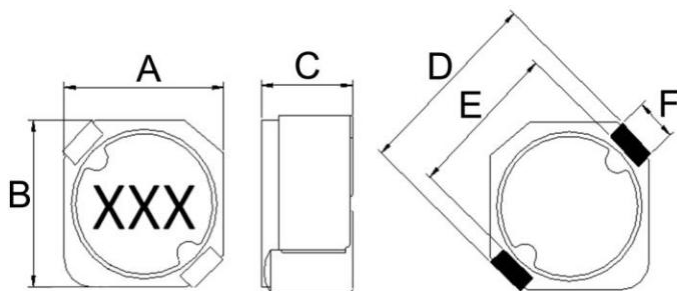
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDx00040415	3.8±0.2	3.8±0.2	1.5Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDH00040418 (1R0~4R7)	3.8±0.2	3.8±0.2	1.5Max	5.4Max	2.8	1.1	2.4	1.4	1.5
BPDH00040418 (6R8~561)	3.8±0.2	3.8±0.2	1.5Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDN00040423	3.8±0.2	3.8±0.2	2.3Max	5.0±0.4	2.8	1.1	2.4	1.4	1.5
BPDN00040430	3.8±0.2	3.8±0.2	3.0Max	5.4Max	2.8	1.1	2.4	1.4	1.5



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDH00040412	3.8±0.2	3.8±0.2	1.2Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDH00060618	5.6±0.2	5.6±0.2	1.8Max	7.0Max	4.7	1.2	4.3	1.45	1.6

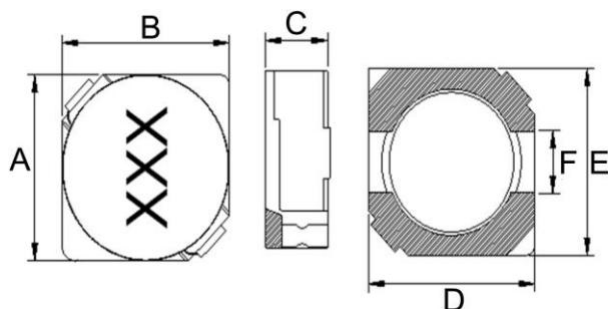


Dimensions in mm

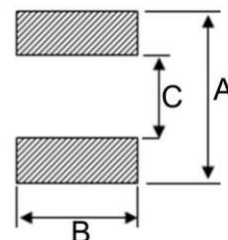
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDC00050520	5.1Max	5.1Max	2.0Max	6.2Max	4.4	1.4	4	1.25	2
BPDC00050530	5.1Max	5.1Max	3.0Max	6.2Max	4.4	1.4	4	1.25	2

SMD Shielded Power Inductors – BPDx Series

Shape and Dimensions



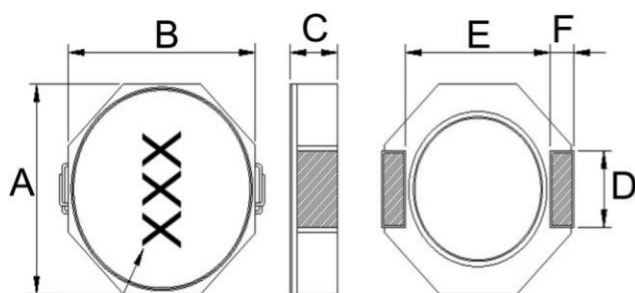
Recommended Pattern



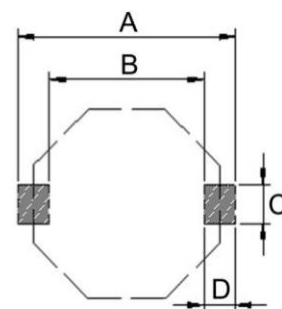
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDR00040416	3.8±0.2	3.8±0.2	1.6±0.3	3.7	3.7	1.2	4.4	14.4	1.2
BPDR00050520	4.7±0.3	4.7±0.3	2.0Max	4.5	4.5	1.5	5.3	5.3	1.5
BPDR00050530	4.7±0.3	4.7±0.3	3.0Max	4.5	4.5	1.5	5.3	5.3	1.5
BPDR00060620	5.7±0.3	5.7±0.3	2.0Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDR00060630	5.7±0.3	5.7±0.3	3.0Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDR00060655	5.7±0.3	5.7±0.3	5.5Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDR00070730	6.7±0.3	6.7±0.3	3.0Max	6.5	6.5	2.0	7.3	7.3	2.0
BPDR00070740	6.7±0.3	6.7±0.3	4.0Max	6.5	6.5	2.0	7.3	7.3	2.0

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPDR00080830	8.0±0.2	8.0±0.2	3.0Max	2.5	6.3	1.2	10.1	6.1	2.8	2
BPDR00080840	8.0±0.2	8.0±0.2	4.0Max	2.5	6.3	1.2	10.1	6.1	2.8	2
BPDR00080845	8.0±0.2	8.0±0.2	4.5Max	2.5	6.3	1.2	10.1	6.1	2.8	2

SMD Shielded Power Inductors – BPDC Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDC000303101R2□00	1.2	20,30	100	0.078	0.83	1.55	1R2
BPDC000303101R5□00	1.5	20,30	100	0.088	0.70	1.35	1R5
BPDC000303102R2□00	2.2	20,30	100	0.119	0.60	1.20	2R2
BPDC000303102R4□00	2.4	20,30	100	0.119	0.58	1.10	2R4
BPDC000303103R3□00	3.3	20,30	100	0.174	0.50	0.90	3R3
BPDC000303104R7□00	4.7	20,30	100	0.238	0.38	0.80	4R7
BPDC000303106R4□00	6.4	20,30	100	0.29	0.36	0.65	6R4
BPDC000303108R2□00	8.2	20,30	100	0.40	0.31	0.56	8R2
BPDC00030310100□00	10	20,30	100	0.50	0.30	0.51	100
BPDC00030310120□00	12	20,30	100	0.55	0.27	0.45	120
BPDC00030310150□00	15	20,30	100	0.65	0.24	0.42	150
BPDC00030310180□00	18	20,30	100	0.77	0.22	0.38	180
BPDC00030310220□00	22	20,30	100	0.94	0.20	0.35	220
BPDC00030310270□00	27	20,30	100	1.11	0.16	0.32	270

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 – BPDC Series**Standard Specifications**

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDC000505201R1□00	1.1	30	100	0.029	2.4	1R1
BPDC000505201R2□00	1.2	30	100	0.029	2.4	1R2
BPDC000505202R2□00	2.2	20,30	100	0.039	1.7	2R2
BPDC000505203R0□00	3.0	30	100	0.061	1.5	3R0
BPDC000505203R3□00	3.3	20,30	100	0.061	1.5	3R3
BPDC000505204R7□00	4.7	20,30	100	0.110	1.15	4R7
BPDC000505206R8□00	6.8	30	100	0.125	1.05	6R8
BPDC00050520100□00	10	20,30	100	0.156	0.83	100
BPDC00050520150□00	15	20,30	100	0.194	0.70	150
BPDC00050520220□00	22	20,30	100	0.323	0.60	220
BPDC00050520330□00	33	20,30	100	0.550	0.46	330
BPDC00050520470□00	47	20,30	100	0.783	0.41	470
BPDC00050520680□00	68	20,30	100	1.16	0.305	680
BPDC00050520101□00	100	20,30	100	1.51	0.250	101

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)
- Rated Current : Based on inductance change (Δ L/Lo : drop 35% Max.) @ ambient temp. 25°C and Based on temperature rise (Δ T : 40°C Typ.)

SMD Shielded Power Inductors – BPDC Series**Standard Specifications**

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDC000505301R1□00	1.1	30	100	0.022	3.8	1R1
BPDC000505302R0□00	2.0	20,30	100	0.029	2.6	2R0
BPDC000505303R2□00	3.2	30	100	0.042	2.3	3R2
BPDC000505304R7□00	4.7	20,30	100	0.063	1.8	4R7
BPDC000505306R3□00	6.3	30	100	0.094	1.3	6R3
BPDC00050530100□00	10	20,30	100	0.106	1.26	100
BPDC00050530150□00	15	20,30	100	0.137	1.05	150
BPDC00050530220□00	22	20,30	100	0.207	0.85	220
BPDC00050530330□00	33	20,30	100	0.331	0.70	330
BPDC00050530470□00	47	20,30	100	0.510	0.54	470
BPDC00050530680□00	68	20,30	100	0.625	0.49	680
BPDC00050530101□00	100	20,30	100	0.948	0.40	101

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)
- 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.)

SMD Shielded Power Inductors – BPDH Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000303121R5□00	1.5	30	100	0.08	1.35	1.6	1R5
BPDH000303122R2□00	2.2	20,30	100	0.12	1.10	1.3	2R2
BPDH000303123R3□00	3.3	30	100	0.173	0.90	0.9	3R3
BPDH000303124R7□00	4.7	30	100	0.238	0.75	0.85	4R7
BPDH000303126R2□00	6.2	20,30	100	0.371	0.63	0.65	6R2
BPDH000303126R8□00	6.8	30	100	0.371	0.63	0.65	6R8
BPDH00030312100□00	10	20,30	100	0.559	0.52	0.52	100
BPDH00030312220□00	22	20,30	100	1.30	0.33	0.40	220
BPDH00030312330□00	33	20,30	100	1.52	0.25	0.35	330

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 – BPDH Series**Standard Specifications**

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000303201R3 $\square$ 00	1.3	30	100	0.044	1.90	2.5	1R3
BPDH000303201R5 $\square$ 00	1.5	30	100	0.044	1.85	2.2	1R5
BPDH000303201R7 $\square$ 00	1.7	30	100	0.044	1.85	2.2	1R7
BPDH000303202R2 $\square$ 00	2.2	20,30	100	0.060	1.60	1.9	2R2
BPDH000303203R3 $\square$ 00	3.3	20,30	100	0.086	1.45	1.55	3R3
BPDH000303203R9 $\square$ 00	3.9	30	100	0.125	1.30	1.35	3R9
BPDH000303204R7 $\square$ 00	4.7	20,30	100	0.140	1.20	1.20	4R7
BPDH000303206R3 $\square$ 00	6.3	20,30	100	0.160	1.05	1.15	6R3
BPDH00030320100 $\square$ 00	10	20,30	100	0.245	0.85	0.90	100
BPDH00030320150 $\square$ 00	15	20,30	100	0.345	0.7	0.64	150
BPDH00030320470 $\square$ 00	47	20,30	100	1.1	0.4	0.40	470

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

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

SMD Shielded Power Inductors – BPDH Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH00040412R60□00	0.6	30	100	0.059	2.9	1.80	R60
BPDH000404121R2□00	1.2	30	100	0.082	2.0	1.70	1R2
BPDH000404121R5□00	1.5	30	100	0.104	1.85	1.45	1R5
BPDH000404122R2□00	2.2	30	100	0.143	1.60	1.15	2R2
BPDH000404122R5□00	2.5	20,30	100	0.150	1.55	1.10	2R5
BPDH000404123R3□00	3.3	30	100	0.182	1.25	0.95	3R3
BPDH000404124R7□00	4.7	20,30	100	0.234	1.00	0.90	4R7
BPDH000404125R6□00	5.6	20,30	100	0.305	0.93	0.80	5R6
BPDH000404126R8□00	6.8	30	100	0.377	0.85	0.70	6R8
BPDH00040412100□00	10	20,30	100	0.413	0.80	0.60	100
BPDH00040412120□00	12	20,30	100	0.585	0.64	0.48	120
BPDH00040412150□00	15	20,30	100	0.653	0.58	0.45	150
BPDH00040412180□00	18	20,30	100	0.888	0.52	0.40	180
BPDH00040412220□00	22	20,30	100	1.012	0.45	0.33	220

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 – BPDH Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000404151R5□00	1.5	25,30	100	0.076	2.6	1.85	1R5
BPDH000404152R2□00	2.2	30	100	0.129	2.0	1.32	2R2
BPDH000404152R4□00	2.4	30	100	0.129	2.0	1.32	2R4
BPDH000404153R2□00	3.2	30	100	0.139	1.8	1.25	3R2
BPDH000404154R7□00	4.7	20,25,30	100	0.214	1.45	1.04	4R7
BPDH000404156R8□00	6.8	20,25,30	100	0.29	1.20	0.84	6R8
BPDH00040415100□00	10	20,25,30	100	0.44	1.00	0.67	100
BPDH00040415150□00	15	20,30	100	0.65	0.80	0.50	150
BPDH00040415180□00	18	20,30	100	0.74	0.73	0.49	180
BPDH00040415220□00	22	20,25,30	100	0.83	0.65	0.48	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , 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 – BPDH Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000404181R0 $\square$ 00	1.0	30	100	0.048	2.5	2.8	1R0
BPDH000404181R2 $\square$ 00	1.2	30	100	0.0495	2.3	2.6	1R2
BPDH000404181R5 $\square$ 00	1.5	30	100	0.051	2.0	2.4	1R5
BPDH000404181R7 $\square$ 00	1.7	30	100	0.051	2.0	2.4	1R7
BPDH000404182R2 $\square$ 00	2.2	20,30	100	0.059	1.75	2.3	2R2
BPDH000404183R3 $\square$ 00	3.3	20,30	100	0.085	1.4	1.8	3R3
BPDH000404184R7 $\square$ 00	4.7	20,30	100	0.116	1.2	1.5	4R7
BPDH000404186R8 $\square$ 00	6.8	20,30	100	0.18	1.0	1.1	6R8
BPDH00040418100 $\square$ 00	10	20,30	100	0.23	0.84	1.0	100
BPDH00040418150 $\square$ 00	15	20,30	100	0.41	0.65	0.75	150
BPDH00040418220 $\square$ 00	22	20,30	100	0.61	0.55	0.52	220
BPDH00040418330 $\square$ 00	33	20,30	100	0.87	0.46	0.41	330
BPDH00040418470 $\square$ 00	47	20,30	100	0.95	0.42	0.37	470
BPDH00040418561 $\square$ 00	560	20,30	100	15	0.09	0.11	561

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

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- 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 – BPDH Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH00060618R90□00	0.9	30	100	0.022	4.7	5.0	R90
BPDH000606182R2□00	2.2	20,30	100	0.0359	3.0	2.9	2R2
BPDH000606184R7□00	4.7	20,30	100	0.0641	2.1	2.1	4R7
BPDH00060618100□00	10	20,30	100	0.14	1.45	1.3	100
BPDH00060618150□00	15	20,30	100	0.24	1.10	1.1	150
BPDH00060618220□00	22	20,30	100	0.32	0.95	0.8	220

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 – BPDH Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000707304R7□00	4.7	20,30	100	0.042	3.5	3.5	4R7
BPDH00070730100□00	10	20,30	100	0.085	2.3	2.3	100
BPDH00070730150□00	15	20,30	100	0.128	2.0	1.45	150
BPDH00070730220□00	22	20,30	100	0.174	1.7	1.2	220
BPDH00070730330□00	33	20,30	100	0.250	1.5	1.1	330

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 – BPDF Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDF000303121R5□00	1.5	30	100	0.068	0.90	1.48	1R5
BPDF000303122R2□00	2.2	30	100	0.098	0.78	1.27	2R2
BPDF000303123R3□00	3.3	30	100	0.123	0.60	1.02	3R3
BPDF000303124R7□00	4.7	20,30	100	0.17	0.50	0.88	4R7
BPDF000303126R8□00	6.8	30	100	0.26	0.44	0.80	6R8
BPDF00030312100□00	10	20,30	100	0.40	0.35	0.65	100
BPDF00030312150□00	15	20,30	100	0.52	0.31	0.60	150
BPDF00030312220□00	22	20,30	100	0.67	0.27	0.55	220
BPDF00030312330□00	33	20,30	100	1.00	0.22	0.40	330

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 – BPDF Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDF000303202R2□00	2.2	20,30	100	0.041	0.85	2.3	2R2
BPDF000303203R3□00	3.3	20,30	100	0.054	0.75	2.1	3R3
BPDF000303204R7□00	4.7	30	100	0.078	0.63	1.65	4R7
BPDF000303206R8□00	6.8	30	100	0.106	0.52	1.32	6R8
BPDF00030320100□00	10	20,30	100	0.18	0.43	1.00	100
BPDF00030320150□00	15	30	100	0.22	0.35	0.80	150
BPDF00030320220□00	22	20,30	100	0.32	0.30	0.68	220
BPDF00030320330□00	33	20,30	100	0.46	0.24	0.56	330
BPDF00030320470□00	47	20,30	100	0.66	0.20	0.48	470

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 – BPDF Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDF000404151R2□00	1.2	30	100	0.038	1.50	2.7	1R2
BPDF000404151R5□00	1.5	30	100	0.048	1.35	2.4	1R5
BPDF000404152R0□00	2.0	30	100	0.055	1.15	2.2	2R0
BPDF000404152R2□00	2.2	20,30	100	0.055	1.15	2.2	2R2
BPDF000404152R5□00	2.5	30	100	0.068	1.05	1.9	2R5
BPDF000404153R0□00	3.0	30	100	0.077	0.95	1.6	3R0
BPDF000404153R9□00	3.9	30	100	0.096	0.80	1.5	3R9
BPDF000404154R5□00	4.5	30	100	0.105	0.75	1.45	4R5
BPDF000404155R6□00	5.6	30	100	0.159	0.70	1.10	5R6
BPDF000404156R8□00	6.8	30	100	0.173	0.60	1.05	6R8
BPDF00040415100□00	10	20,30	100	0.220	0.50	1.00	100
BPDF00040415120□00	12	20,30	100	0.270	0.45	0.80	120
BPDF00040415150□00	15	20,30	100	0.302	0.40	0.75	150
BPDF00040415220□00	22	20,30	100	0.447	0.35	0.60	220
BPDF00040415330□00	33	20,30	100	0.848	0.30	0.40	330
BPDF00040415470□00	47	20,30	100	1.080	0.25	0.35	470

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

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

SMD Shielded Power Inductors – BPDN Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
			Frequency (kHz)				
BPDN000404152R2□00	2.2	25,30	100	0.055	1.15	2.2	2R2
BPDN000404154R7□00	4.7	25,30	100	0.105	0.75	1.45	4R7

Note: When ordering, please specify tolerance code. Tolerance: Y=±25% , 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 – BPDN Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404231R0□00	1.0	25	100	0.025	2.8	3.1	1R0
BPDN000404231R5□00	1.5	25	100	0.029	2.2	2.9	1R5
BPDN000404232R2□00	2.2	25	100	0.0383	1.8	2.5	2R2
BPDN000404233R3□00	3.3	25	100	0.0563	1.45	2.2	3R3
BPDN000404234R7□00	4.7	25	100	0.0688	1.30	1.9	4R7
BPDN000404235R6□00	5.6	25	100	0.075	1.10	1.8	5R6
BPDN000404236R8□00	6.8	25	100	0.0878	1.00	1.7	6R8
BPDN000404238R2□00	8.2	25	100	0.0948	0.95	1.6	8R2
BPDN00040423100□00	10	20,25	100	0.117	0.85	1.4	100
BPDN00040423150□00	15	20,25	100	0.119	0.70	0.85	150
BPDN00040423220□00	22	20,25	100	0.270	0.55	0.75	220
BPDN00040423330□00	33	20,25	100	0.381	0.50	0.60	330
BPDN00040423470□00	47	20,25	100	0.546	0.35	0.55	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25%

- 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 – BPDN Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404301R0□00	1.0	30	100	0.021	3.7	5.2	1R0
BPDN000404302R2□00	2.2	30	100	0.045	2.5	2.2	2R2
BPDN000404303R3□00	3.3	30	100	0.0721	2.0	1.85	3R3
BPDN000404304R7□00	4.7	30	100	0.0883	1.65	1.62	4R7
BPDN000404306R8□00	6.8	30	100	0.119	1.24	1.32	6R8
BPDN00040430100□00	10	30	100	0.145	1.05	1.18	100
BPDN00040430150□00	15	30	100	0.213	0.90	1.02	150
BPDN00040430220□00	22	30	100	0.335	0.76	0.74	220
BPDN00040430330□00	33	30	100	0.481	0.58	0.63	330
BPDN00040430470□00	47	30	100	0.599	0.48	0.56	470

Note: When ordering, please specify tolerance code. Tolerance: 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 – BPDR Series**Standard Specifications**

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000404162R2□00	2.2	20,30	100	0.072	1.2	2R2
BPDR000404163R3□00	3.3	30	100	0.085	1.1	3R3
BPDR000404164R7□00	4.7	20,30	100	0.105	0.9	4R7
BPDR000404166R2□00	6.2	30	100	0.16	0.8	6R2
BPDR000404166R8□00	6.8	20,30	100	0.17	0.73	6R8
BPDR000404168R2□00	8.2	30	100	0.20	0.65	8R2
BPDR00040416100□00	10	20,30	100	0.21	0.55	100
BPDR00040416150□00	15	20,30	100	0.295	0.45	150
BPDR00040416220□00	22	20,30	100	0.43	0.40	220
BPDR00040416330□00	33	20,30	100	0.675	0.32	330
BPDR00040416390□00	39	20,30	100	0.82	0.26	390
BPDR00040416470□00	47	20,30	100	0.99	0.24	470
BPDR00040416680□00	68	20,30	100	1.1	0.22	680
BPDR00040416101□00	100	20,30	100	2.2	0.17	101
BPDR00040416221□00	220	20,30	100	4.0	0.15	221

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 (Δ L/Lo : drop 35% Max.) @ ambient temp. 25°C and Based on temperature rise (Δ T : 40°C Typ.)

SMD Shielded Power Inductors – BPDR Series**Standard Specifications**

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000505201R0□00	1.0	30	100	0.045	1.72	1R0
BPDR000505202R2□00	2.2	30	100	0.075	1.32	2R2
BPDR000505202R7□00	2.7	30	100	0.105	1.28	2R7
BPDR000505203R3□00	3.3	30	100	0.110	1.04	3R3
BPDR000505203R9□00	3.9	30	100	0.155	0.88	3R9
BPDR000505204R7□00	4.7	20,30	100	0.162	0.84	4R7
BPDR000505205R6□00	5.6	20,30	100	0.170	0.80	5R6
BPDR000505206R8□00	6.8	20,30	100	0.200	0.76	6R8
BPDR000505208R2□00	8.2	20,30	100	0.245	0.68	8R2
BPDR00050520100□00	10	20,30	100	0.260	0.61	100
BPDR00050520120□00	12	20,30	100	0.280	0.56	120
BPDR00050520150□00	15	20,30	100	0.310	0.50	150
BPDR00050520180□00	18	20,30	100	0.338	0.48	180
BPDR00050520220□00	22	20,30	100	0.397	0.41	220
BPDR00050520270□00	27	20,30	100	0.441	0.35	270
BPDR00050520330□00	33	20,30	100	0.694	0.32	330
BPDR00050520390□00	39	20,30	100	0.709	0.30	390
BPDR00050520101□00	100	20,30	100	1.4	0.20	101
BPDR00050520221□00	220	20,30	100	2.4	0.15	221

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.)

SMD Shielded Power Inductors – BPDR Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000505301R0□00	1.0	30	100	0.0236	2.56	1R0
BPDR000505301R2□00	1.2	30	100	0.0236	2.56	1R2
BPDR000505301R8□00	1.8	20,30	100	0.0275	2.20	1R8
BPDR000505302R2□00	2.2	20,30	100	0.0313	2.04	2R2
BPDR000505302R7□00	2.7	30	100	0.0433	1.60	2R7
BPDR000505303R3□00	3.3	20,30	100	0.0492	1.57	3R3
BPDR000505303R9□00	3.9	30	100	0.0648	1.44	3R9
BPDR000505304R7□00	4.7	20,30	100	0.0720	1.32	4R7
BPDR000505305R6□00	5.6	20,30	100	0.1009	1.17	5R6
BPDR000505306R8□00	6.8	20,30	100	0.1089	1.12	6R8
BPDR000505308R2□00	8.2	20,30	100	0.1175	1.04	8R2
BPDR00050530100□00	10	20,30	100	0.1283	1.00	100
BPDR00050530120□00	12	20,30	100	0.1316	0.84	120
BPDR00050530150□00	15	20,30	100	0.149	0.76	150
BPDR00050530180□00	18	20,30	100	0.166	0.72	180
BPDR00050530220□00	22	20,30	100	0.235	0.70	220
BPDR00050530270□00	27	20,30	100	0.261	0.58	270
BPDR00050530330□00	33	20,30	100	0.3313	0.56	330
BPDR00050530390□00	39	20,30	100	0.3837	0.50	390
BPDR00050530470□00	47	20,30	100	0.587	0.48	470
BPDR00050530560□00	56	20,30	100	0.6245	0.41	560
BPDR00050530680□00	68	20,30	100	0.699	0.35	680
BPDR00050530820□00	82	20,30	100	0.9148	0.32	820
BPDR00050530101□00	100	10,20	100	1.02	0.29	101
BPDR00050530121□00	120	10,20	100	1.27	0.27	121
BPDR00050530151□00	150	10,20	100	1.35	0.24	151
BPDR00050530181□00	180	10,20	100	1.54	0.22	181
BPDR00050530271□00	270	20,30	100	3.00	0.16	271

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 35% Max.) @ ambient temp. 25°C and Based on temperature rise (ΔT : 40°C Typ.)

SMD Shielded Power Inductors – BPDR Series**Standard Specifications**

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000606204R1□00	4.1	30	100	0.057	1.95	4R1
BPDR000606205R4□00	5.4	30	100	0.076	1.60	5R4
BPDR000606206R2□00	6.2	20,30	100	0.096	1.40	6R2
BPDR000606206R8□00	6.8	20,30	100	0.096	1.40	6R8
BPDR000606208R9□00	8.9	20,30	100	0.116	1.25	8R9
BPDR00060620100□00	10	20,30	100	0.124	1.20	100
BPDR00060620120□00	12	20,30	100	0.153	1.10	120
BPDR00060620150□00	15	20,30	100	0.196	0.97	150
BPDR00060620180□00	18	20,30	100	0.21	0.85	180
BPDR00060620220□00	22	20,30	100	0.29	0.80	220
BPDR00060620270□00	27	20,30	100	0.33	0.75	270
BPDR00060620330□00	33	20,30	100	0.385	0.65	330
BPDR00060620390□00	39	20,30	100	0.52	0.57	390
BPDR00060620470□00	47	20,30	100	0.595	0.54	470
BPDR00060620560□00	56	20,30	100	0.665	0.50	560
BPDR00060620680□00	68	20,30	100	0.84	0.43	680
BPDR00060620820□00	82	20,30	100	0.978	0.41	820
BPDR00060620101□00	100	10,20	100	1.2	0.36	101

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)
- Rated Current : Based on inductance change (Δ L/Lo : drop 35% Max.) @ ambient temp. 25°C and Based on temperature rise (Δ T : 40°C Typ.)

SMD Shielded Power Inductors – BPDR Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000606301R0□00	1.0	30	100	0.012	3.7	1R0
BPDR000606301R2□00	1.2	30	100	0.013	3.5	1R2
BPDR000606302R2□00	2.2	30	100	0.018	2.8	2R2
BPDR000606302R5□00	2.5	30	100	0.018	2.6	2R5
BPDR000606302R7□00	2.7	30	100	0.018	2.6	2R7
BPDR000606303R0□00	3.0	30	100	0.024	2.4	3R0
BPDR000606303R3□00	3.3	20,30	100	0.024	2.4	3R3
BPDR000606303R9□00	3.9	30	100	0.031	2.2	3R9
BPDR000606304R2□00	4.2	30	100	0.031	2.2	4R2
BPDR000606304R7□00	4.7	20,30	100	0.035	2.0	4R7
BPDR000606305R3□00	5.3	30	100	0.038	1.9	5R3
BPDR000606306R2□00	6.2	20,30	100	0.045	1.8	6R2
BPDR000606306R6□00	6.6	20,30	100	0.045	1.8	6R6
BPDR000606308R2□00	8.2	20,30	100	0.053	1.6	8R2
BPDR00060630100□00	10	20,30	100	0.065	1.3	100
BPDR00060630120□00	12	20,30	100	0.076	1.2	120
BPDR00060630150□00	15	20,30	100	0.103	1.1	150
BPDR00060630180□00	18	20,30	100	0.110	1.0	180
BPDR00060630220□00	22	20,30	100	0.112	0.9	220
BPDR00060630270□00	27	20,30	100	0.175	0.85	270
BPDR00060630330□00	33	20,30	100	0.189	0.75	330
BPDR00060630390□00	39	20,30	100	0.212	0.7	390
BPDR00060630470□00	47	20,30	100	0.250	0.62	470
BPDR00060630560□00	56	20,30	100	0.305	0.58	560
BPDR00060630680□00	68	20,30	100	0.355	0.52	680
BPDR00060630820□00	82	20,30	100	0.463	0.46	820
BPDR00060630101□00	100	20,30	100	0.52	0.42	101
BPDR00060630151□00	150	20,30	100	1.05	0.35	151
BPDR00060630181□00	180	20,30	100	1.55	0.32	181
BPDR00060630221□00	220	20,30	100	1.90	0.28	221

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)
- 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.)

SMD Shielded Power Inductors – BPDR Series**Standard Specifications**

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000606551R5□00	1.5	20,30	100	0.0103	5.5	6.3	1R5
BPDR000606552R2□00	2.2	30	100	0.0170	4.5	5.0	2R2
BPDR000606553R3□00	3.3	20,30	100	0.0222	3.5	4.3	3R3
BPDR000606554R7□00	4.7	20,30	100	0.0261	3.0	4.0	4R7
BPDR000606556R8□00	6.8	20,30	100	0.0355	2.5	3.5	6R8
BPDR00060655100□00	10	20,30	100	0.0666	1.7	2.3	100
BPDR00060655101□00	100	30	100	0.358	0.65	0.85	101

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 – BPDR Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000707301R2□00	1.2	30	100	0.014	4.5	1R2
BPDR000707301R5□00	1.5	30	100	0.015	4.0	1R5
BPDR000707302R2□00	2.2	20,30	100	0.020	3.5	2R2
BPDR000707303R0□00	3.0	30	100	0.024	3.0	3R0
BPDR000707303R3□00	3.3	30	100	0.025	3.0	3R3
BPDR000707303R6□00	3.6	30	100	0.027	2.6	3R6
BPDR000707303R9□00	3.9	30	100	0.027	2.6	3R9
BPDR000707304R7□00	4.7	20,30	100	0.030	2.5	4R7
BPDR000707305R0□00	5.0	30	100	0.031	2.4	5R0
BPDR000707306R0□00	6.0	30	100	0.035	2.25	6R0
BPDR000707306R8□00	6.8	30	100	0.054	2.1	6R8
BPDR000707307R3□00	7.3	30	100	0.054	2.1	7R3
BPDR000707308R6□00	8.6	30	100	0.058	1.85	8R6
BPDR000707309R0□00	9.0	20,30	100	0.058	1.85	9R0
BPDR00070730100□00	10	20,30	100	0.065	1.7	100
BPDR00070730120□00	12	20,30	100	0.070	1.55	120
BPDR00070730150□00	15	20,30	100	0.084	1.4	150
BPDR00070730180□00	18	20,30	100	0.095	1.32	180
BPDR00070730220□00	22	20,30	100	0.128	1.2	220
BPDR00070730270□00	27	20,30	100	0.142	1.05	270
BPDR00070730330□00	33	20,30	100	0.165	0.97	330
BPDR00070730390□00	39	20,30	100	0.210	0.86	390
BPDR00070730470□00	47	20,30	100	0.238	0.80	470
BPDR00070730560□00	56	20,30	100	0.277	0.73	560
BPDR00070730680□00	68	20,30	100	0.304	0.65	680
BPDR00070730820□00	82	20,30	100	0.390	0.60	820
BPDR00070730101□00	100	20,30	100	0.535	0.54	101
BPDR00070730151□00	150	20,30	100	0.72	0.40	151

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.)

SMD Shielded Power Inductors – BPDR Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000707401R0□00	1.0	30	100	0.010	4.5	1R0
BPDR000707401R5□00	1.5	30	100	0.011	4.3	1R5
BPDR000707402R2□00	2.2	30	100	0.015	4.0	2R2
BPDR000707403R3□00	3.3	20,30	100	0.020	3.5	3R3
BPDR000707403R8□00	3.	30	100	0.020	3.5	3R8
BPDR000707405R0□00	5.0	30	100	0.024	2.9	5R0
BPDR000707406R2□00	6.2	30	100	0.027	2.5	6R2
BPDR000707406R8□00	6.8	20,30	100	0.027	2.4	6R8
BPDR000707407R4□00	7.4	30	100	0.031	2.3	7R4
BPDR000707408R2□00	8.2	30	100	0.034	2.2	8R2
BPDR000707408R7□00	8.7	30	100	0.034	2.2	8R7
BPDR00070740100□00	10	20,30	100	0.038	2.0	100
BPDR00070740120□00	12	20,30	100	0.053	1.7	120
BPDR00070740150□00	15	20,30	100	0.057	1.6	150
BPDR00070740180□00	18	20,30	100	0.092	1.5	180
BPDR00070740220□00	22	20,30	100	0.096	1.3	220
BPDR00070740270□00	27	20,30	100	0.109	1.2	270
BPDR00070740330□00	33	20,30	100	0.124	1.1	330
BPDR00070740390□00	39	20,30	100	0.138	1.0	390
BPDR00070740470□00	47	20,30	100	0.155	0.95	470
BPDR00070740560□00	56	20,30	100	0.202	0.85	560
BPDR00070740680□00	68	20,30	100	0.234	0.75	680
BPDR00070740820□00	82	20,30	100	0.324	0.70	820
BPDR00070740101□00	100	10,20,30	100	0.358	0.65	101
BPDR00070740221□00	220	20,30	100	1.50	0.45	221
BPDR00070740331□00	330	20,30	100	1.55	0.35	331

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

- Operating temperature range - $40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (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.)

SMD Shielded Power Inductors – BPDR Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808302R5□00	2.5	30	100	0.0156	4.5	6.4	2R5
BPDR000808303R3□00	3.3	20,30	100	0.0182	4.0	6.0	3R3
BPDR000808303R6□00	3.6	20,30	100	0.0240	3.8	4.6	3R6
BPDR000808304R7□00	4.7	20,30	100	0.0247	3.4	4.5	4R7
BPDR000808307R3□00	7.3	30	100	0.039	2.8	3.4	7R3
BPDR00080830100□00	10	20,30	100	0.047	2.5	3.2	100
BPDR00080830150□00	15	20,30	100	0.069	1.9	2.35	150
BPDR00080830220□00	22	20,30	100	0.099	1.6	1.85	220
BPDR00080830330□00	33	20,30	100	0.156	1.3	1.45	330
BPDR00080830470□00	47	20,30	100	0.195	1.15	1.30	470
BPDR00080830680□00	68	20,30	100	0.286	0.92	0.98	680
BPDR00080830101□00	100	20,30	100	0.430	0.75	0.80	101

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 – BPDR Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808401R8□00	1.8	30	100	0.0156	7.0	6.8	1R8
BPDR000808402R5□00	2.5	30	100	0.0175	6.5	6.0	2R5
BPDR000808403R5□00	3.5	30	100	0.024	5.0	5.2	3R5
BPDR000808404R7□00	4.7	20,30	100	0.029	4.6	4.4	4R7
BPDR000808406R0□00	6.0	20,30	100	0.032	4.2	4.0	6R0
BPDR00080840100□00	10	20,30	100	0.048	3.0	3.2	100
BPDR00080840150□00	15	20,30	100	0.067	2.75	2.5	150
BPDR00080840220□00	22	20,30	100	0.105	2.3	2.0	220
BPDR00080840330□00	33	20,30	100	0.157	1.75	1.6	330
BPDR00080840390□00	39	20,30	100	0.173	1.65	1.51	390
BPDR00080840470□00	47	20,30	100	0.189	1.52	1.42	470
BPDR00080840680□00	68	20,30	100	0.29	1.3	1.08	680
BPDR00080840101□00	100	20,30	100	0.41	1.05	0.88	101

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

- Operating temperature range - $40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or I rms

SMD Shielded Power Inductors – BPDR Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808451R0 $\square$ 00	1.0	30	100	0.0122	8.0	6.2	1R0
BPDR000808451R2 $\square$ 00	1.2	30	100	0.0122	8.0	6.2	1R2
BPDR000808452R0 $\square$ 00	2.0	30	100	0.014	7.0	5.5	2R0
BPDR000808452R2 $\square$ 00	2.2	30	100	0.016	6.8	5.0	2R2
BPDR000808453R6 $\square$ 00	3.6	20,30	100	0.019	5.9	4.5	3R3
BPDR000808453R9 $\square$ 00	3.9	30	100	0.019	5.9	4.5	3R9
BPDR000808454R7 $\square$ 00	4.7	20,30	100	0.022	5.6	4.1	4R7
BPDR000808456R8 $\square$ 00	6.8	20,30	100	0.025	4.4	3.9	6R8
BPDR000808458R2 $\square$ 00	8.2	20,30	100	0.033	4.2	3.6	8R2
BPDR00080845100 $\square$ 00	10	20,30	100	0.036	4.0	3.2	100
BPDR00080845150 $\square$ 00	15	20,30	100	0.062	2.9	2.3	150
BPDR00080845220 $\square$ 00	22	20,30	100	0.075	2.6	1.8	220
BPDR00080845330 $\square$ 00	33	20,30	100	0.125	2.2	1.4	330
BPDR00080845470 $\square$ 00	47	20,30	100	0.150	1.8	1.3	470
BPDR00080845560 $\square$ 00	56	20,30	100	0.225	1.65	1.2	560
BPDR00080845680 $\square$ 00	68	20,30	100	0.240	1.5	1.0	680
BPDR00080845101 $\square$ 00	100	20,30	100	0.360	1.3	0.8	101
BPDR00080845121 $\square$ 00	120	20,30	100	0.51	1.0	0.7	121
BPDR00080845221 $\square$ 00	220	20,30	100	1.00	0.6	0.6	221

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 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 – BPDS Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDS000303161R5 $\square$ 00	1.5	30	100	0.063	1.80	2.0	1R5
BPDS000303161R8 $\square$ 00	1.8	30	100	0.075	1.65	1.8	1R8
BPDS000303162R2 $\square$ 00	2.2	20,25,30	100	0.094	1.50	1.6	2R2
BPDS000303162R7 $\square$ 00	2.7	20,30	100	0.106	1.35	1.4	2R7
BPDS000303163R3 $\square$ 00	3.3	30	100	0.125	1.2	1.24	3R3
BPDS000303163R9 $\square$ 00	3.9	30	100	0.138	1.1	1.12	3R9
BPDS000303164R7 $\square$ 00	4.7	20,30	100	0.169	1.0	1.00	4R7
BPDS000303165R6 $\square$ 00	5.6	20,30	100	0.188	0.95	0.98	5R6
BPDS000303166R8 $\square$ 00	6.8	30	100	0.213	0.85	0.92	6R8
BPDS000303168R2 $\square$ 00	8.2	30	100	0.281	0.80	0.80	8R2
BPDS00030316100 $\square$ 00	10	20,30	100	0.294	0.70	0.76	100
BPDS00030316120 $\square$ 00	12	20,30	100	0.394	0.62	0.64	120
BPDS00030316220 $\square$ 00	22	20,30	100	0.65	0.30	0.30	220
BPDS00030316330 $\square$ 00	33	20,30	100	1.00	0.24	0.24	330
BPDS00030316470 $\square$ 00	47	20,30	100	1.25	0.20	0.20	470
BPDS00030316101 $\square$ 00	100	20,30	100	2.40	0.12	0.12	101

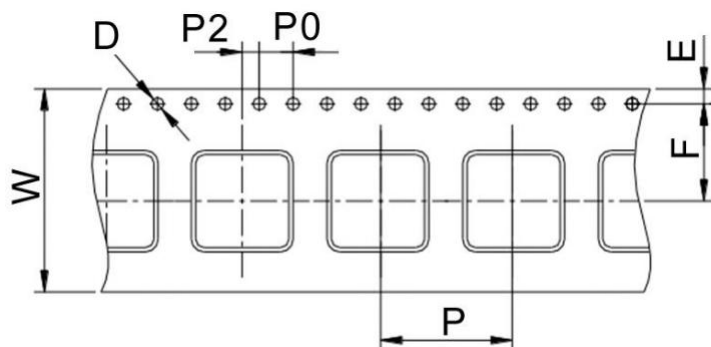
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , T=±30%

- 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

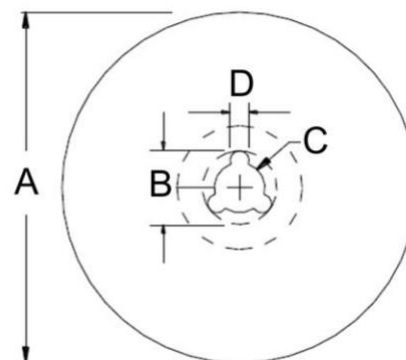
SMD Shielded Power Inductors – BPDx Series

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							A	Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2		B	C	D	PCS / Reel	
BPDC00030310	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000	
BPDx00030312	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000	
BPDS00030316	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000	
BPDx00030320	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000	
BPDH00040412	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000	
BPDx00040415	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500	
BPDR00040416	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500	
BPDH00040418	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500	
BPDN00040423	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2500	
BPDN00040430	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000	
BPDx00050520	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000	
BPDx00050530	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000	
BPDH00060618	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000	
BPDR00060620	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000	
BPDR00060630	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000	
BPDR00060655	16	1.5	1.75	7.5	12	4	2	330	20	13	2	900	
BPDx00070730	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000	
BPDR00070740	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000	
BPDR00080830	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000	
BPDR00080840	16	1.5	1.75	7.5	16	4	2	330	20	13	2	900	
BPDR00080845	16	1.5	1.75	7.5	16	4	2	330	20	13	2	900	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

BPDC00030310100M00	BPDC00030310100T00	BPDC00030310120M00	BPDC00030310120T00
BPDC00030310150M00	BPDC00030310150T00	BPDC00030310180M00	BPDC00030310180T00
BPDC000303101R2M00	BPDC000303101R2T00	BPDC000303101R5M00	BPDC000303101R5T00
BPDC00030310220M00	BPDC00030310220T00	BPDC00030310270M00	BPDC00030310270T00
BPDC000303102R2M00	BPDC000303102R2T00	BPDC000303102R4M00	BPDC000303102R4T00
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BPDC000303106R4M00	BPDC000303106R4T00	BPDC000303108R2M00	BPDC000303108R2T00
BPDC00050520100M00	BPDC00050520100T00	BPDC00050520101M00	BPDC00050520101T00
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BPDC00050520220M00	BPDC00050520220T00	BPDC000505202R2M00	BPDC000505202R2T00
BPDC00050520330M00	BPDC00050520330T00	BPDC000505203R0T00	BPDC000505203R3M00
BPDC000505203R3T00	BPDC00050520470M00	BPDC00050520470T00	BPDC000505204R7M00
BPDC000505204R7T00	BPDC00050520680M00	BPDC00050520680T00	BPDC000505206R8T00
BPDC00050530100M00	BPDC00050530100T00	BPDC00050530101M00	BPDC00050530101T00
BPDC00050530150M00	BPDC00050530150T00	BPDC000505301R1T00	BPDC00050530220M00
BPDC00050530220T00	BPDC000505302R0M00	BPDC000505302R0T00	BPDC00050530330M00
BPDC00050530330T00	BPDC000505303R2T00	BPDC00050530470M00	BPDC00050530470T00
BPDC000505304R7M00	BPDC000505304R7T00	BPDC00050530680M00	BPDC00050530680T00
BPDC000505306R3T00	BPDH00030320100M00	BPDH00030320100T00	BPDH00030320150M00
BPDH00030320150T00	BPDH000303201R3T00	BPDH000303201R5T00	BPDH000303201R7T00
BPDH000303202R2M00	BPDH000303202R2T00	BPDH000303203R3M00	BPDH000303203R3T00
BPDH000303203R9T00	BPDH00030320470M00	BPDH00030320470T00	BPDH000303204R7M00
BPDH000303204R7T00	BPDH000303206R3M00	BPDH000303206R3T00	BPDH00040412100M00
BPDH00040412100T00	BPDH00040412120M00	BPDH00040412120T00	BPDH00040412150M00
BPDH00040412150T00	BPDH00040412180M00	BPDH00040412180T00	BPDH000404121R2T00