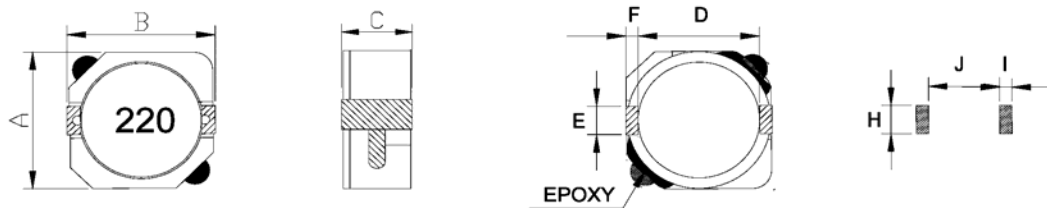


- Features:
- Directly connected electrode on ferrite core
 - Provides magnetic shielding against radiation
 - Provides high power and high saturation
 - Contact factory for inductance values outside those listed in the datasheet



- Application:
- Power supply for VTRs
 - Personal computers
 - DC/DC converters
 - LCD televisions
 - Handheld communication devices

Inductance and Current Ranges		
Type	Inductance (μH)	Current Range (A)
PSDB5D28	2.5 ~ 100	2.6 ~ 0.4
PSDB1003	10 ~ 150	2.7 ~ 0.7
PSDB1004	1.3 ~ 330	10 ~ 0.7
PSDB1005	1.5 ~ 1000	10.5 ~ 0.35



Mechanical Specification										
Type / Code	A max.	B max.	C max.	D	E	F	H	I	J	Unit
PSDB5D28	0.244	0.248	0.118	0.185	0.079	0.024	0.102	0.039	0.181	inches
	6.2	6.3	3.0	4.7	2.0	0.6	2.6	1.0	4.6	mm
PSDB1003	0.406	0.409	0.122	0.303	0.118	0.047	0.126	0.063	0.287	inches
	10.3	10.4	3.1	7.7	3.0	1.2	3.2	1.6	7.3	mm
PSDB1004	0.406	0.409	0.157	0.303	0.118	0.047	0.126	0.063	0.287	inches
	10.3	10.4	4.0	7.7	3.0	1.2	3.2	1.6	7.3	mm
PSDB1005	0.406	0.409	0.197	0.303	0.118	0.047	0.126	0.063	0.287	inches
	10.3	10.4	5.0	7.7	3.0	1.2	3.2	1.6	7.3	mm

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13
P	S	D	B	5	D	2	8	N	T	1	0	1
Product Series		Code	Dimensions (mm)		Tolerance		Packaging				Inductance	
PSDB	SMD Power Inductors	5D28	6.2x6.3x3.0		Code	Tol	Code	Description	Size	Quantity	Code	(μH)
		1003	10.3x10.4x3.1		N	30%	T	Tape and Reel	5D28	2,000	1R1	1.1
		1004	10.3x10.4x4.0						1003	1,000	470	47
		1005	10.3x10.4x5.0						1004, 1005	750	101	100

Electrical Specifications											
Code	L (μH)	Tolerance	Test Condition	DCR (mΩ)				IDC (A)			
				max.				max.			
				5D28	1003	1004	1005	5D28	1003	1004	1005
1R3	1.3	N	100KHz, 0.1V	-	-	8	-	-	-	10.00	-
1R5	1.5	N	100KHz, 0.1V	-	-	8	6	-	-	10.00	10.50
2R2	2.2	N	100KHz, 0.1V	-	-	11	7	-	-	8.00	9.25
2R5	2.5	N	100KHz, 0.1V	17.60	-	12	-	2.60	-	7.50	-
3R3	3.3	N	100KHz, 0.1V	20.30	-	13	10	2.30	-	6.50	7.80
3R8	3.8	N	100KHz, 0.1V	-	-	17	-	-	-	6.00	-
4R0	4.0	N	100KHz, 0.1V	27.00	-	-	-	2.10	-	-	-
4R7	4.7	N	100KHz, 0.1V	-	-	21	12	-	-	5.70	6.40
5R0	5.0	N	100KHz, 0.1V	31.10	-	-	-	1.85	-	-	-
5R2	5.2	N	100KHz, 0.1V	-	-	22	-	-	-	5.50	-
5R6	5.6	N	100KHz, 0.1V	-	-	25	-	-	-	5.20	-
6R0	6.0	N	100KHz, 0.1V	41.90	-	-	-	1.70	-	-	-
6R8	6.8	N	100KHz, 0.1V	-	-	26	18	-	-	4.90	5.40
7R0	7.0	N	100KHz, 0.1V	-	-	27	-	-	-	4.80	-
8R0	8.0	N	100KHz, 0.1V	49.90	-	-	-	1.50	-	-	-
8R2	8.2	N	100KHz, 0.1V	-	-	-	20	-	-	-	4.85
100	10	N	100KHz, 0.1V	54.00	58	35	26	1.30	2.70	4.40	3.45
120	12	N	100KHz, 0.1V	71.60	72	-	33	1.20	2.25	-	3.40
150	15	N	100KHz, 0.1V	82.40	86	50	41	1.10	2.22	3.60	2.83
180	18	N	100KHz, 0.1V	101.50	116	-	46	1.05	1.90	-	2.62
220	22	N	100KHz, 0.1V	119.00	145	73	61	0.95	1.78	2.90	2.44
270	27	N	100KHz, 0.1V	146.00	176	83	69	0.85	1.63	2.80	2.24
330	33	N	100KHz, 0.1V	182.50	213	93	84	0.76	1.46	2.30	1.88
390	39	N	100KHz, 0.1V	209.50	270	-	106	0.68	1.32	-	1.70
470	47	N	100KHz, 0.1V	229.50	299	128	130	0.60	1.18	2.10	1.56
560	56	N	100KHz, 0.1V	305.00	335	-	149	0.55	1.10	-	1.39
680	68	N	100KHz, 0.1V	351.00	451	213	201	0.48	1.04	1.50	1.36
820	82	N	100KHz, 0.1V	418.50	513	-	227	0.45	0.94	-	1.20
101	100	N	100KHz, 0.1V	520.00	700	304	253	0.40	0.84	1.35	1.09
121	120	N	100KHz, 0.1V	-	765	-	303	-	0.76	-	1.00
151	150	N	100KHz, 0.1V	-	876	506	370	-	0.70	1.15	0.91
181	180	N	100KHz, 0.1V	-	-	631	419	-	-	1.03	0.84
221	220	N	100KHz, 0.1V	-	-	756	500	-	-	0.92	0.75
271	270	N	100KHz, 0.1V	-	-	-	672	-	-	-	0.68
331	330	N	100KHz, 0.1V	-	-	1,090	812	-	-	0.70	0.60
391	390	N	100KHz, 0.1V	-	-	-	953	-	-	-	0.57
471	470	N	100KHz, 0.1V	-	-	-	1,289	-	-	-	0.50
561	560	N	100KHz, 0.1V	-	-	-	1,430	-	-	-	0.47
681	680	N	100KHz, 0.1V	-	-	-	1,599	-	-	-	0.43
821	820	N	100KHz, 0.1V	-	-	-	1,768	-	-	-	0.39
102	1000	N	100KHz, 0.1V	-	-	-	1,989	-	-	-	0.35