

TAIYO YUDEN



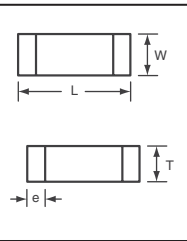
Wound Chip Power Inductors

CB Series

The CB Series wound chip inductors can be used for small DC/DC converters and are suited for choke uses.

Applications: • DSC/DVC/HDD • LCD • Portable telephones • Game equipment • Various audio-visual equipment
• Various communication equipment

Type	Dimensions - Inch (mm)			
	L	W	T	e
CBC3225	0.126 ±0.008 (3.2 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.024 ±0.012 (0.6 ±0.3)
CB2518, CBC2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
CB2016, CBC2016	0.079 ±0.008 (2.0 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
CB2012, CBC2012	0.079 ±0.008 (2.0 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
CBL2012	0.079 ±0.008 (2.0 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.035 ±0.004 (0.9 ±0.1)	0.020 ±0.008 (0.5 ±0.2)
CBMF1608	0.063 ±0.02 (1.6 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.015 ±0.006 (0.4 ±0.15)



Inductance (µH)	Tolerance (%)	Max. DC Resistance (mΩ)	Temp. Rise Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
CB2012 Type										
1.0	20%	195	950	587-1629-1-ND	69	5.46	32.86	4,000	112.33/M	CBL2012T1R0M
2.2	20%	507	590	587-1630-1-ND	69	5.46	32.86	4,000	112.33/M	CBL2012T2R2M
4.7	20%	858	490	587-1631-1-ND	69	5.46	32.86	4,000	112.33/M	CBL2012T4R7M
10	20%	1,300	370	587-1632-1-ND	69	5.46	32.86	4,000	112.33/M	CBL2012T100M
22	20%	2,730	250	587-1633-1-ND	69	5.46	32.86	4,000	112.33/M	CBL2012T220M
47	20%	5,460	140	587-1634-1-ND	69	5.46	32.86	4,000	112.33/M	CBL2012T470M
CBMF1608 Type										
1.0	20%	117	770	587-1717-1-ND	66	5.16	31.07	3,000	112.33/M	CBMF1608T1R0M
2.2	20%	221	560	587-1718-1-ND	66	5.16	31.07	3,000	112.33/M	CBMF1608T2R2M
4.7	20%	312	470	587-1719-1-ND	66	5.16	31.07	3,000	112.33/M	CBMF1608T4R7M
10	20%	468	380	587-1720-1-ND	66	5.16	31.07	3,000	112.33/M	CBMF1608T100M
22	20%	1,300	230	587-1721-1-ND	66	5.16	31.07	3,000	112.33/M	CBMF1608T220M
47	20%	3,250	140	587-1722-1-ND	66	5.16	31.07	3,000	112.33/M	CBMF1608T470M

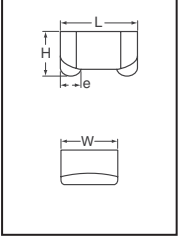
† For Tape and Reel part number, change the 1-ND to 2-ND. † Low RDC Type
‡ \$ 87-1796-ND (TAIYO-CBCCOIL-V1) 5 each of values denoted plus value; 470µH not stocked by Digi-Key (145 total pieces) \$67.33

BR Series

The best efficiency design is achieved by adopting bottom-surface electrode structure. Small and low-profile wound chip inductors are suited for module design which needs high electric current like DC/DC converters.

Applications: • Small DC/DC converters in cell phones • HDD, DVC, DSC, PDA, LCD displays

Type	Dimensions - Inch (mm)			
	L	W	H	e
BRC1608	0.063 ±0.008 (1.6 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.016 ±0.006 (0.45 ±0.15)
BRL2012	0.078 ±0.008 (2.0 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.040 max. (1.0 max.)	0.020 ±0.008 (0.5 ±0.2)
BRC2016	0.098 ±0.008 (2.5 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
BRL2518	0.098 ±0.008 (2.5 ±0.2)	0.059 ±0.008 (1.5 ±0.2)	0.048 max. (1.2 max.)	0.020 ±0.008 (0.5 ±0.2)
BRC2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
BRL2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.048 max. (1.2 max.)	0.020 ±0.008 (0.5 ±0.2)
BRFL2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.040 max. (1.0 max.)	0.020 ±0.008 (0.5 ±0.2)
BRL3225	0.126 ±0.008 (3.2 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.068 max. (1.7 max.)	0.03 ±0.008 (0.75 ±0.2)



Inductance (µH)	Tolerance (%)	Max. DC Resistance (mΩ)	Temp. Rise Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
BRC1608 Type										
0.2	20%	78	980	587-2056-1-ND	65	5.41	33.93	3,000	129.05/M	BRC1608TR20M
0.35	20%	104	810	587-2057-1-ND	65	5.41	33.93	3,000	129.05/M	BRC1608TR35M
0.45	20%	117	800	587-2058-1-ND	65	5.41	33.93	3,000	129.05/M	BRC1608TR45M
0.56	20%	123.5	760	587-2059-1-ND	65	5.41	33.93	3,000	129.05/M	BRC1608TR56M
0.77	20%	143	660	587-2060-1-ND	65	5.41	33.93	3,000	129.05/M	BRC1608TR77M
1.0	20%	234	520	587-2061-1-ND	65	5.41	33.93	3,000	129.05/M	BRC1608TR100M
2.2	20%	715	280	587-2062-1-ND	65	5.41	33.93	3,000	129.05/M	BRC1608TR220M
BRL2012 Type										
1.0	20%	175.5	850	587-2063-1-ND	74	5.87	35.35	3,000	126.81/M	BRL2012T1R0M
2.2	20%	390	550	587-2064-1-ND	74	5.87	35.35	3,000	126.81/M	BRL2012T2R2M
4.7	20%	715	400	587-2065-1-ND	74	5.87	35.35	3,000	126.81/M	BRL2012T4R7M
10	20%	1,105	330	587-2066-1-ND	74	5.87	35.35	3,000	126.81/M	BRL2012T100M
22	20%	1,690	270	587-2067-1-ND	74	5.87	35.35	3,000	126.81/M	BRL2012T220M
47	20%	4,550	160	587-2068-1-ND	74	5.87	35.35	3,000	126.81/M	BRL2012T470M
100	20%	10,010	85	587-2069-1-ND	74	5.87	35.35	3,000	126.81/M	BRL2012T101M
BRC2016 Type										
1.0	20%	110.5	1,100	587-2171-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T1R0M
1.5	20%	195	820	587-2172-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T1R5M
2.2	20%	234	760	587-2173-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T2R2M
3.3	20%	296	680	587-2174-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T3R3M
4.7	20%	351	610	587-2175-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T4R7M
6.8	20%	429	560	587-2176-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T6R8M
10	20%	520	520	587-2177-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T100M
22	20%	1,300	310	587-2178-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T220M
47	20%	2,860	210	587-2179-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T470M
100	20%	4,420	170	587-2180-1-ND	73	5.78	34.79	2,000	125.68/M	BRC2016T101M
NEW! BRL2518 Type NEW!										
1.0	20%	91	1,350	587-2601-1-ND	81	6.43	38.71	3,000	139.38/M	BRL2518T1R0M
1.5	20%	130	1,150	587-2602-1-ND	81	6.43	38.71	3,000	139.38/M	BRL2518T1R5M
2.2	20%	175.5	1,000	587-2603-1-ND	81	6.43	38.71	3,000	139.38/M	BRL2518T2R2M
3.3	20%	279.5	750	587-2604-1-ND	81	6.43	38.71	3,000	139.38/M	BRL2518T3R3M
4.7	20%	344.5	700	587-2605-1-ND	81	6.43	38.71	3,000	139.38/M	BRL2518T4R7M
NEW! BRC2518 Type NEW!										
1.0	20%	65	1,650	587-2437-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T1R0M
1.5	20%	104	1,300	587-2438-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T1R5M
2.2	20%	156	1,000	587-2440-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T2R2M
3.3	20%	228	860	587-2442-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T3R3M
4.7	20%	299	750	587-2444-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T4R7M
6.8	20%	364	680	587-2446-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T6R8M
10	20%	455	610	587-2434-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T100M
15	20%	559	550	587-2436-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T150M
22	20%	728	490	587-2439-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T220M
33	20%	1,105	390	587-2441-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T330M
47	20%	1,885	300	587-2443-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T470M
68	20%	3,120	230	587-2445-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T680M
100	20%	4,680	190	587-2435-1-ND	80	6.33	38.15	2,000	137.35/M	BRC2518T101M
BRL2518 Type										
1.0	20%	104	1,000	587-1952-1-ND	64	5.34	33.46	3,000	127.93/M	BRL2518T1R0M
2.2	20%	175.5	850	587-1954-1-ND	64	5.34	33.46	3,000	127.93/M	BRL2518T2R2M
3.3	20%	390	580	587-1955-1-ND	64	5.34	33.46	3,000	127.93/M	BRL2518T3R3M
NEW! BRFL2518 Type NEW!										
1.0	20%	90	1,200	587-2570-1-ND	81	6.43	38.71	3,000	139.38/M	BRFL2518T1R0M
1.5	20%	110	1,000	587-2571-1-ND	81	6.43	38.71	3,000	139.38/M	BRFL2518T1R5M

† For Tape and Reel part number, change 1-ND to 2-ND. (Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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