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TECHNOLOGIES
... POWERING INNOVATION

Corporate Overview



www.cd4power.com/magnetics

Power Electronics Division

C&D Technologies was founded on innovation - when Frank Carlyle and Leon Doughty began a career converting gas lighting to electricity in the early 1900s.

Since then the organization has grown into a global force in power conversion and storage and is now a world-leading manufacturer, listed on the New York Stock Exchange (NYSE:CHP).

As we have changed, so have the demands of our customers. Where a simple light bulb would have amazed Carlyle and Dougherty's first customers, today's electronic design engineers need innovative solutions for their ever more complex power needs. We aim not only to meet these needs, but

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Full data on over 3,400 products

resource for engineers sourcing all our product ranges and features:

are available online now.

The site offers an interactive

· Intelligent product search

Technical support details

RoHS information

Online purchasing

Product datasheets

Application notes

Sample requests

Custom parts requests

to design the solutions that provide the power to drive the innovations of the future.

With half a million square feet of manufacturing in six facilities on three continents, eight development labs and 12 sales offices around the world, C&D Technologies' Power Electronics Division boasts some of the best resources in the power electronics industry.

Our product range is the widest available today and is constantly being updated to keep pace with the many markets we serve.

Value, quality, reliability and innovation go handin-hand with total customer support to ensure that our products and services are second to none.

C&D Technologies, Inc.

C&D Technologies, Inc. is a technology company that produces and markets systems for the power conversion and storage of electrical power, including industrial batteries and electronics. The organization comprises three operating divisions:

Power Electronics Division designs, manufactures and markets products for the conversion of power within electronic systems. Products include DC/DC & AC/DC converters, support magnetics, digital

panel meters and data acquisition products.

Standby Division designs, manufactures and markets batteries for standby power in telecommunications, uninterruptable power systems (UPS), broadband, CATV and mobility traction applications.



Motive Power Division

develops, manufactures and markets the world's leading motive power batteries, advanced chargers, electronic monitoring modules, maintenance tools and computerized management systems.



C&D Technologies Inc. reserves the right to alter or improve the specifications, data. descriptions, internal design or manufacturing process at any time, without notice. Please check with your supplier or visit our web site to ensure that you have the current and complete specification for your product before use

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suitability of the product(s) featured herein for user's intended purpose and in user's specific application. The products are not suitable for use as Safety Critical Components¹ in Life Support Devices² or on aircraft.

C&D Technologies, Inc.'s liability for any breach of warranty is limited as set forth in C&D Technologies, Inc.'s standard warranty applicable to the product ("The Warranty"). The warranty is exclusive and offered in lieu of all other express, implied or statutory warranties including, without limitation, implied warranties of merchantability and fitness for a particular purpose

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- Safety Critical Component means any component whose failure to perform could cause the failure of, or affect the operation of a Life Support Device
- Life Support Device means any device, system or ancillary equipment intended for implant into the body or used in relation to supporting or sustaining life.

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For full datasheets go to: www.cd4power.com/magnetics



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China

France

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Filtering & Isolation - A Core Consideration

Two essential elements of the vast majority of power electronics applications are filtering and isolation. Whether you need to reduce noise or protect vital components, C&D can offer a wide range of products to suit your requirements.

We have developed over 400 highly advanced and optimized inductor and transformer solutions with the emphasis on miniaturization, reliability and ease of handling. These power oriented designs are available in a variety of styles including bobbin, radial, axial and surface mount.

Tape and reel packaging is available for surface mount devices making them ideal for pick and place assembly lines.

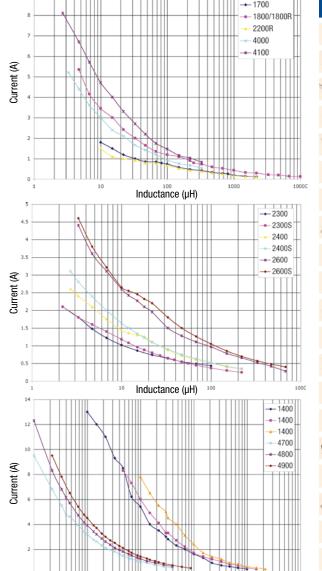
How to select a suitable inductor...

For ease of selection, simply identify the package type by the contents panel (if necessary), and then refer to the graphs on this page, to see which L and loc variants are available.

Once you have a suitable product, please refer to the listed product page to find further details, or acquire a datasheet from www.cd4power.com/magnetics for the full specification.

Please Note: Both parallel and series combinations of the 4700, 4800 and 4900 series have been plotted.

China



Inductance (µH)



For full datasheets go to: www.cd4power.com/magnetics



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1400 Series

Through Hole Bobbin Inductors

Inductance: $10\mu H$ to 22mHCurrent: Up to $13AI_{mc}$

Operating temperature: -40 to +85°C Height: 14 to 21.8mm (0.55-0.85") Features: Custom options available



Petachest							
Datasheet:		a)	1400 Series		1		
Inductance	Current	DC Resistance	Dimer	isions	Model Number		
μН	Α	Ω	Inches	mm			
10	13	0.009	Ø0.96 x 0.55	Ø24.4 x 14.0	1410313		
15	12	0.012	Ø0.96 x 0.55	Ø24.4 x 14.0	1415312		
22	11	0.014	Ø0.96 x 0.55	Ø24.4 x 14.0	1422311		
33	9.3	0.017	Ø0.96 x 0.55	Ø24.4 x 14.0	1433393		
47	8.3	0.02	Ø0.96 x 0.73	Ø24.4 x 18.5	1447383		
47	8.5	0.022	Ø0.96 x 0.55	Ø24.4 x 14.0	1447385		
68	6.2	0.034	Ø0.96 x 0.55	Ø24.4 x 14.0	1468362		
68	7.3	0.025	Ø0.96 x 0.73	Ø24.4 x 18.5	1468373		
100	5.4	0.046	Ø0.96 x 0.55	Ø24.4 x 14.0	1410454		
100	6	0.034	Ø0.96 x 0.73	Ø24.4 x 18.5	1410460		
100	7.8	0.032	Ø1.17 x 0.86	Ø29.8 x 21.8	1410478		
150	4	0.075	Ø0.96 x 0.55	Ø24.4 x 14.0	1415440		
150	4.9	0.055	Ø0.96 x 0.73	Ø24.4 x 18.5	1415449		
150	6.5	0.045	Ø1.17 x 0.86	Ø29.8 x 21.8	1415465		
220	3.5	0.11	Ø0.96 x 0.55	Ø24.4 x 14.0	1422435		
220	4.1	0.077	Ø0.96 x 0.73	Ø24.4 x 18.5	1422441		
220	5.5	0.061	Ø1.17 x 0.86	Ø29.8 x 21.8	1422455		
300	3	0.14	Ø0.96 x 0.55	Ø24.4 x 14.0	1430430		
300	3.3	0.11	Ø0.96 x 0.73	Ø24.4 x 18.5	1430433		
300	5	0.089	Ø1.17 x 0.86	Ø29.8 x 21.8	1430450		
330	2.8	0.15	Ø0.96 x 0.55	Ø24.4 x 14.0	1433428		
330	3.3	0.12	Ø0.96 x 0.73	Ø24.4 x 18.5	1433433		
330	4.5	0.094	Ø1.17 x 0.86	Ø29.8 x 21.8	1433445		
470	2.3	0.25	Ø0.96 x 0.55	Ø24.4 x 14.0	1447423		
470 470	2.7	0.16	Ø0.96 x 0.73	Ø24.4 x 18.5	1447427		
-		0.13	Ø1.17 x 0.86	Ø29.8 x 21.8	1447440		
680	2.2	0.3	Ø0.96 x 0.55	Ø24.4 x 14.0	1468420		
680 680	3.1	0.24	Ø0.96 x 0.73 Ø1.17 x 0.86	Ø24.4 x 18.5 Ø29.8 x 21.8	1468422 1468431		
1000	1.6	0.19		Ø24.4 x 14.0	1410516		
1000	1.7	0.36	Ø0.96 x 0.55 Ø0.96 x 0.73	Ø24.4 x 14.0	1410517		
1000	2.4	0.30	Ø1.17 x 0.86	Ø29.8 x 21.8	1410517		
1500	1.3	0.29	Ø0.96 x 0.55	Ø24.4 x 14.0	1415513		
1500	1.4	0.55	Ø0.96 x 0.73	Ø24.4 x 18.5	1415514		
1500	1.7	0.33	Ø1.17 x 0.86	Ø29.8 x 21.8	1415517		
2200	0.9	1	Ø0.96 x 0.55	Ø24.4 x 14.0	1422509		
2200	1.2	0.7	Ø0.96 x 0.55	Ø24.4 x 14.0	1422512		
2200	1.4	0.6	Ø1.17 x 0.86	Ø29.8 x 21.8	1422514		
3300	0.7	1.5	Ø0.96 x 0.55	Ø24.4 x 14.0	1433507		
3300	1	1.1	Ø0.96 x 0.73	Ø24.4 x 18.5	1433510		
3300	1.2	0.93	Ø1.17 x 0.86	Ø29.8 x 21.8	1433512		
4700	0.6	2.3	Ø0.96 x 0.55	Ø24.4 x 14.0	1447506		
1700	0.8	1.6	Ø0.96 x 0.73	Ø24.4 x 18.5	1447508		
1700	0.9	1.4	Ø1.17 x 0.86	Ø29.8 x 21.8	1447509		
3800	0.5	2.9	Ø0.96 x 0.55	Ø24.4 x 14.0	1468505		
6800	0.7	2.3	Ø0.96 x 0.73	Ø24.4 x 18.5	1468507		
3800	0.8	2.1	Ø1.17 x 0.86	Ø29.8 x 21.8	1468508		
0000	0.4	4.5	Ø0.96 x 0.55	Ø24.4 x 14.0	1410604		
0000	0.5	3.6	Ø0.96 x 0.73	Ø24.4 x 18.5	1410605		
0000	0.6	2.6	Ø1.17 x 0.86	Ø29.8 x 21.8	1410606		
5000	0.4	5.5	Ø0.96 x 0.73	Ø24.4 x 18.5	1415604		
5000	0.5	4	Ø1.17 x 0.86	Ø29.8 x 21.8	1415605		
22000	0.4	7.3	Ø1.17 x 0.86	Ø29.8 x 21.8	1422604		

1700 Series

Through Hole Radial Lead Inductors

Inductance: 10µH to 68mH **Current:** Up to 1.8A I_{pc}

Operating temperature: 0 to 70°C **Height:** 10.5mm (0.41")

Features: Custom options available



Datas	heet:		1700 Series		
Inductance	Current	DC Resistance	Dimer	nsions	Model Number
μH	Α	Ω	Inches	mm	
10	1.8	0.045	Ø0.28 x 0.41	Ø7.2 x 10.5	17103
15	1.5	0.06	Ø0.28 x 0.41	Ø7.2 x 10.5	17153
22	1.2	0.082	Ø0.28 x 0.41	Ø7.2 x 10.5	17223
33	1	0.13	Ø0.28 x 0.41	Ø7.2 x 10.5	17333
47	0.86	0.2	Ø0.28 x 0.41	Ø7.2 x 10.5	17473
68	0.85	0.26	Ø0.28 x 0.41	Ø7.2 x 10.5	17683
100	0.74	0.35	Ø0.28 x 0.41	Ø7.2 x 10.5	17104
150	0.58	0.49	Ø0.28 x 0.41	Ø7.2 x 10.5	17154
220	0.48	0.75	Ø0.28 x 0.41	Ø7.2 x 10.5	17224
330	0.42	1.1	Ø0.28 x 0.41	Ø7.2 x 10.5	17334
470	0.34	1.5	Ø0.28 x 0.41	Ø7.2 x 10.5	17474
680	0.28	2.4	Ø0.28 x 0.41	Ø7.2 x 10.5	17684
1000	0.19	3.3	Ø0.28 x 0.41	Ø7.2 x 10.5	17105
1500	0.15	5.9	Ø0.28 x 0.41	Ø7.2 x 10.5	17155
2200	0.12	7.8	Ø0.28 x 0.41	Ø7.2 x 10.5	17225
3300	0.11	9.1	Ø0.28 x 0.41	Ø7.2 x 10.5	17335
4700	0.09	12	Ø0.28 x 0.41	Ø7.2 x 10.5	17475
6800	0.08	20	Ø0.28 x 0.41	Ø7.2 x 10.5	17685
10000	0.07	34	Ø0.28 x 0.41	Ø7.2 x 10.5	17106
15000	0.06	45	Ø0.28 x 0.41	Ø7.2 x 10.5	17156
22000	0.05	75	Ø0.28 x 0.41	Ø7.2 x 10.5	17226
33000	0.04	100	Ø0.28 x 0.41	Ø7.2 x 10.5	17336
47000	0.03	140	Ø0.28 x 0.41	Ø7.2 x 10.5	17476
68000	0.02	220	Ø0.28 x 0.41	Ø7.2 x 10.5	17686

1800 Series

Through Hole Axial Inductors

Inductance: $4.7\mu H$ to 10mH Current: Up to $5.35AI_{pc}$

Operating temperature: 0 to 70°C

Height: 10.6mm (0.42")

Features: Custom & radial options available (see 1800R series)



Datasheet:		1800 Series			
Inductance	Current	DC Resistance	Dimer	nsions	Model Number
μΗ	Α	Ω	Inches	mm	
4.7	5.35	0.009	Ø0.42 x 0.72	Ø10.6 x 18.3	18472
6.8	4.15	0.012	Ø0.42 x 0.72	Ø10.6 x 18.3	18682
10	3.45	0.015	Ø0.42 x 0.72	Ø10.6 x 18.3	18103
15	3	0.018	Ø0.42 x 0.72	Ø10.6 x 18.3	18153
22	2.42	0.025	Ø0.42 x 0.72	Ø10.6 x 18.3	18223
33	2	0.04	Ø0.42 x 0.72	Ø10.6 x 18.3	18333
47	1.65	0.055	Ø0.42 x 0.72	Ø10.6 x 18.3	18473
68	1.35	0.07	Ø0.42 x 0.72	Ø10.6 x 18.3	18683
100	1.2	0.1	Ø0.42 x 0.72	Ø10.6 x 18.3	18104
150	1.1	0.17	Ø0.42 x 0.72	Ø10.6 x 18.3	18154
220	0.9	0.23	Ø0.42 x 0.72	Ø10.6 x 18.3	18224
250	0.8	0.26	Ø0.42 x 0.72	Ø10.6 x 18.3	18254
330	0.73	0.34	Ø0.42 x 0.72	Ø10.6 x 18.3	18334
470	0.6	0.47	Ø0.42 x 0.72	Ø10.6 x 18.3	18474
680	0.53	0.63	Ø0.42 x 0.72	Ø10.6 x 18.3	18684
1000	0.44	1	Ø0.42 x 0.72	Ø10.6 x 18.3	18105

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1500	0.33	1.5	Ø0.42 x 0.72	Ø10.6 x 18.3	18155
2200	0.3	2.2	Ø0.42 x 0.72	Ø10.6 x 18.3	18225
3300	0.22	3.5	Ø0.42 x 0.72	Ø10.6 x 18.3	18335
4700	0.2	4.6	Ø0.42 x 0.72	Ø10.6 x 18.3	18475
6800	0.15	7	Ø0.42 x 0.72	Ø10.6 x 18.3	18685
10000	0.13	12	Ø0.42 x 0.72	Ø10.6 x 18.3	18106

1800R Series

Through Hole Radial Lead Inductors

Inductance: 4.7µH to 10mH **Current:** Up to $5.35AI_{DC}$ **Operating temperature:** 0 to 70°C

Height: 15.9mm (0.63")

Features: Custom & axial options available (see 1800 series)



Datas	Datasheet: 1800R Series				
Inductance	Current	DC Resistance	Dimer	nsions	Model Number
μH	Α	Ω	Inches	mm	
4.7	5.35	0.009	Ø0.54 x 0.63	Ø13.7 x 15.9	18R472
6.8	4.15	0.012	Ø0.54 x 0.63	Ø13.7 x 15.9	18R682
10	3.45	0.015	Ø0.54 x 0.63	Ø13.7 x 15.9	18R103
15	3	0.018	Ø0.54 x 0.63	Ø13.7 x 15.9	18R153
22	2.42	0.025	Ø0.54 x 0.63	Ø13.7 x 15.9	18R223
33	2	0.04	Ø0.54 x 0.63	Ø13.7 x 15.9	18R333
47	1.65	0.055	Ø0.54 x 0.63	Ø13.7 x 15.9	18R473
68	1.35	0.07	Ø0.54 x 0.63	Ø13.7 x 15.9	18R683
100	1.2	0.1	Ø0.54 x 0.63	Ø13.7 x 15.9	18R104
150	1.1	0.17	Ø0.54 x 0.63	Ø13.7 x 15.9	18R154
220	0.9	0.23	Ø0.54 x 0.63	Ø13.7 x 15.9	18R224
250	0.8	0.26	Ø0.54 x 0.63	Ø13.7 x 15.9	18R254
330	0.73	0.34	Ø0.54 x 0.63	Ø13.7 x 15.9	18R334
470	0.6	0.47	Ø0.54 x 0.63	Ø13.7 x 15.9	18R474
680	0.53	0.63	Ø0.54 x 0.63	Ø13.7 x 15.9	18R684
1000	0.44	1	Ø0.54 x 0.63	Ø13.7 x 15.9	18R105
1500	0.33	1.5	Ø0.54 x 0.63	Ø13.7 x 15.9	18R155
2200	0.3	2.2	Ø0.54 x 0.63	Ø13.7 x 15.9	18R225
3300	0.22	3.5	Ø0.54 x 0.63	Ø13.7 x 15.9	18R335
4700	0.2	4.6	Ø0.54 x 0.63	Ø13.7 x 15.9	18R475
6800	0.15	7	Ø0.54 x 0.63	Ø13.7 x 15.9	18R685
10000	0.13	12	Ø0.54 x 0.63	Ø13.7 x 15.9	18R106

2200R Series

Through Hole Radial Lead Inductors

Inductance: 10µH to 68mH Current: Up to 1.5A Inc.

Operating temperature: -25 to 70°C

Height: 10.5mm (0.41") Features: Custom options available



Datasneet:			2200K Series		
Inductance	Current	DC Resistance	Dimensions		Model Number
μH	Α	Ω	Inches	mm	
10	1.62	0.05	Ø0.28 x 0.41	Ø7.2 x 10.5	22R103
15	1.35	0.07	Ø0.28 x 0.41	Ø7.2 x 10.5	22R153
22	1.08	0.09	Ø0.28 x 0.41	Ø7.2 x 10.5	22R223
33	0.9	0.14	Ø0.28 x 0.41	Ø7.2 x 10.5	22R333
47	0.77	0.22	Ø0.28 x 0.41	Ø7.2 x 10.5	22R473
68	0.77	0.28	Ø0.28 x 0.41	Ø7.2 x 10.5	22R683
100	0.67	0.39	Ø0.28 x 0.41	Ø7.2 x 10.5	22R104

150 0.52 0.54 00.28 x 0.41 07.2 x 10.5 22R154 220 0.43 0.83 00.28 x 0.41 07.2 x 10.5 22R224 330 0.38 1.2 00.28 x 0.41 07.2 x 10.5 22R334 470 0.31 1.7 00.28 x 0.41 07.2 x 10.5 22R474 680 0.25 2.6 00.28 x 0.41 07.2 x 10.5 22R684 1000 0.17 3.6 00.28 x 0.41 07.2 x 10.5 22R105 1500 0.13 6.5 00.28 x 0.41 07.2 x 10.5 22R105 2200 0.11 8.6 00.28 x 0.41 07.2 x 10.5 22R225 3300 0.1 10 00.28 x 0.41 07.2 x 10.5 22R335 4700 0.081 13 00.28 x 0.41 07.2 x 10.5 22R475 6800 0.072 22 00.28 x 0.41 07.2 x 10.5 22R168 10000 0.063 37 00.28 x 0.41 07.2 x 10.5 22R106 15000						
330 0.38 1.2 Ø0.28 x 0.41 Ø7.2 x 10.5 22R334 470 0.31 1.7 Ø0.28 x 0.41 Ø7.2 x 10.5 22R474 680 0.25 2.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R684 1000 0.17 3.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R105 1500 0.13 6.5 Ø0.28 x 0.41 Ø7.2 x 10.5 22R155 2200 0.11 8.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R225 3300 0.1 10 Ø0.28 x 0.41 Ø7.2 x 10.5 22R335 4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 2200 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 33000 <t< td=""><td>150</td><td>0.52</td><td>0.54</td><td>Ø0.28 x 0.41</td><td>Ø7.2 x 10.5</td><td>22R154</td></t<>	150	0.52	0.54	Ø0.28 x 0.41	Ø7.2 x 10.5	22R154
470 0.31 1.7 Ø0.28 x 0.41 Ø7.2 x 10.5 22R474 680 0.25 2.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R684 1000 0.17 3.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R105 1500 0.13 6.5 Ø0.28 x 0.41 Ø7.2 x 10.5 22R155 2200 0.11 8.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R225 3300 0.1 10 Ø0.28 x 0.41 Ø7.2 x 10.5 22R335 4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R475 6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	220	0.43	0.83	Ø0.28 x 0.41	Ø7.2 x 10.5	22R224
680 0.25 2.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R684 1000 0.17 3.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R105 1500 0.13 6.5 Ø0.28 x 0.41 Ø7.2 x 10.5 22R155 2200 0.11 8.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R25 3300 0.1 10 Ø0.28 x 0.41 Ø7.2 x 10.5 22R335 4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R475 6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	330	0.38	1.2	Ø0.28 x 0.41	Ø7.2 x 10.5	22R334
1000 0.17 3.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R105 1500 0.13 6.5 Ø0.28 x 0.41 Ø7.2 x 10.5 22R155 2200 0.11 8.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R225 3300 0.1 10 Ø0.28 x 0.41 Ø7.2 x 10.5 22R335 4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R475 6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R26 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	470	0.31	1.7	Ø0.28 x 0.41	Ø7.2 x 10.5	22R474
1500 0.13 6.5 Ø0.28 x 0.41 Ø7.2 x 10.5 22R155 2200 0.11 8.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R225 3300 0.1 10 Ø0.28 x 0.41 Ø7.2 x 10.5 22R335 4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R475 6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	680	0.25	2.6	Ø0.28 x 0.41	Ø7.2 x 10.5	22R684
2200 0.11 8.6 Ø0.28 x 0.41 Ø7.2 x 10.5 22R225 3300 0.1 10 Ø0.28 x 0.41 Ø7.2 x 10.5 22R335 4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R475 6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	1000	0.17	3.6	Ø0.28 x 0.41	Ø7.2 x 10.5	22R105
3300 0.1 10 Ø0.28 x 0.41 Ø7.2 x 10.5 22R335 4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R475 6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	1500	0.13	6.5	Ø0.28 x 0.41	Ø7.2 x 10.5	22R155
4700 0.081 13 Ø0.28 x 0.41 Ø7.2 x 10.5 22R475 6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R166 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	2200	0.11	8.6	Ø0.28 x 0.41	Ø7.2 x 10.5	22R225
6800 0.072 22 Ø0.28 x 0.41 Ø7.2 x 10.5 22R685 10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	3300	0.1	10	Ø0.28 x 0.41	Ø7.2 x 10.5	22R335
10000 0.063 37 Ø0.28 x 0.41 Ø7.2 x 10.5 22R106 15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	4700	0.081	13	Ø0.28 x 0.41	Ø7.2 x 10.5	22R475
15000 0.054 50 Ø0.28 x 0.41 Ø7.2 x 10.5 22R156 22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	6800	0.072	22	Ø0.28 x 0.41	Ø7.2 x 10.5	22R685
22000 0.045 83 Ø0.28 x 0.41 Ø7.2 x 10.5 22R226 33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	10000	0.063	37	Ø0.28 x 0.41	Ø7.2 x 10.5	22R106
33000 0.036 110 Ø0.28 x 0.41 Ø7.2 x 10.5 22R336	15000	0.054	50	Ø0.28 x 0.41	Ø7.2 x 10.5	22R156
21211	22000	0.045	83	Ø0.28 x 0.41	Ø7.2 x 10.5	22R226
47000 0.027 154 Ø0.28 x 0.41 Ø7.2 x 10.5 22R476	33000	0.036	110	Ø0.28 x 0.41	Ø7.2 x 10.5	22R336
	47000	0.027	154	Ø0.28 x 0.41	Ø7.2 x 10.5	22R476
68000 0.018 242 Ø0.28 x 0.41 Ø7.2 x 10.5 22R686	68000	0.018	242	Ø0.28 x 0.41	Ø7.2 x 10.5	22R686

2300 Series

Surface Mount Drum Core Inductors

Inductance: 2.2 to 220µH **Current:** Up to 2.1A $I_{\rm DC}$

Operating temperature: -40 to 85°C

Height: 3.2mm (0.13")

Features: Shielded or Unshielded, Tape & Reel packaging

Datas	sheet:		2300 Series			
Inductance	Current	DC Resistance	Dimer	nsions	Model Numbe	er
μH	А	Ω	Inches	mm		
2.2	2.1	0.029	Ø0.18 x 0.13	Ø4.5 x 3.2	232R2	
3.3	1.8	0.044	Ø0.18 x 0.13	Ø4.5 x 3.2	233R3	
4.7	1.48	0.068	Ø0.18 x 0.13	Ø4.5 x 3.2	234R7	
6.8	1.22	0.1	Ø0.18 x 0.13	Ø4.5 x 3.2	236R8	-
10	1.02	0.14	Ø0.18 x 0.13	Ø4.5 x 3.2	23100	를
15	0.86	0.21	Ø0.18 x 0.13	Ø4.5 x 3.2	23150	Unshielded
22	0.74	0.29	Ø0.18 x 0.13	Ø4.5 x 3.2	23220	us
33	0.64	0.5	Ø0.18 x 0.13	Ø4.5 x 3.2	23330	_
47	0.55	0.68	Ø0.18 x 0.13	Ø4.5 x 3.2	23470	
68	0.49	0.84	Ø0.18 x 0.13	Ø4.5 x 3.2	23680	
100	0.43	1.3	Ø0.18 x 0.13	Ø4.5 x 3.2	23101	
2.2	2.1	0.025	Ø0.24 x 0.13	Ø6.2 x 3.2	23S2R2	
3.3	1.8	0.031	Ø0.24 x 0.13	Ø6.2 x 3.2	23S3R3	
4.7	1.6	0.044	Ø0.24 x 0.13	Ø6.2 x 3.2	23S4R7	
6.8	1.4	0.064	Ø0.24 x 0.13	Ø6.2 x 3.2	23S6R8	
10	1.18	0.087	Ø0.24 x 0.13	Ø6.2 x 3.2	23S100	
12	1.08	0.11	Ø0.24 x 0.13	Ø6.2 x 3.2	23S120	
15	0.96	0.13	Ø0.24 x 0.13	Ø6.2 x 3.2	23S150	
18	0.88	0.14	Ø0.24 x 0.13	Ø6.2 x 3.2	23S180	ъ
22	0.8	0.18	Ø0.24 x 0.13	Ø6.2 x 3.2	23S220	Shielded
27	0.72	0.22	Ø0.24 x 0.13	Ø6.2 x 3.2	23S270	iệ.
33	0.65	0.24	Ø0.24 x 0.13	Ø6.2 x 3.2	23S330	S
39	0.6	0.37	Ø0.24 x 0.13	Ø6.2 x 3.2	23S390	
47	0.54	0.46	Ø0.24 x 0.13	Ø6.2 x 3.2	23S470	
56	0.5	0.51	Ø0.24 x 0.13	Ø6.2 x 3.2	23S560	
68	0.45	0.64	Ø0.24 x 0.13	Ø6.2 x 3.2	23S680	
100	0.37	0.78	Ø0.24 x 0.13	Ø6.2 x 3.2	23S101	
150	0.3	1.2	Ø0.24 x 0.13	Ø6.2 x 3.2	23S151	
220	0.25	2.3	Ø0.24 x 0.13	Ø6.2 x 3.2	23S221	

For full datasheets go to: www.cd4power.com/magnetics

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2400 Series

Surface Mount Drum Core Inductors

Inductance: 2.7 to 220 μ H Current: Up to 3.1A I $_{\mbox{\scriptsize DC}}$

Operating temperature: -40 to 85°C

Height: 4.5mm (0.18")

Features: Shielded or Unshielded, Tape & Reel packaging

Datasheet:			2400 Series			
Inductance	Current	DC Resistance	Dimen	sions	Model Numbe	er
μΗ	А	Ω	Inches	mm	1	
2.7	2.6	0.039	Ø0.23 x 0.18	Ø5.8 x 4.5	242R7	
3.3	2.4	0.042	Ø0.23 x 0.18	Ø5.8 x 4.5	243R3	
4.7	2.1	0.05	Ø0.23 x 0.18	Ø5.8 x 4.5	244R7	
6.8	1.75	0.061	Ø0.23 x 0.18	Ø5.8 x 4.5	246R8	
10	1.44	0.1	Ø0.23 x 0.18	Ø5.8 x 4.5	24100	
12	1.36	0.1	Ø0.23 x 0.18	Ø5.8 x 4.5	24120	ا ا
15	1.3	0.14	Ø0.23 x 0.18	Ø5.8 x 4.5	24150	Unshielded
18	1.26	0.2	Ø0.23 x 0.18	Ø5.8 x 4.5	24180	를
22	1.11	0.18	Ø0.23 x 0.18	Ø5.8 x 4.5	24220	us
33	0.88	0.23	Ø0.23 x 0.18	Ø5.8 x 4.5	24330	-
47	0.72	0.37	Ø0.23 x 0.18	Ø5.8 x 4.5	24470	
100	0.52	0.7	Ø0.23 x 0.18	Ø5.8 x 4.5	24101	
68	0.61	0.46	Ø0.23 x 0.18	Ø5.8 x 4.5	24680	
150	0.4	1.1	Ø0.23 x 0.18	Ø5.8 x 4.5	24151	
220	0.35	1.6	Ø0.23 x 0.18	Ø5.8 x 4.5	24221	
2.7	3.1	0.028	Ø0.30 x 0.18	Ø7.7 x 4.5	24S2R7	
3.3	2.8	0.032	Ø0.30 x 0.18	Ø7.7 x 4.5	24S3R3	1
4.7	2.39	0.037	Ø0.30 x 0.18	Ø7.7 x 4.5	24S4R7	
6.8	2	0.045	Ø0.30 x 0.18	Ø7.7 x 4.5	24S6R8	
10	1.64	0.07	Ø0.30 x 0.18	Ø7.7 x 4.5	24S100	
12	1.5	0.074	Ø0.30 x 0.18	Ø7.7 x 4.5	24S120	
15	1.34	0.09	Ø0.30 x 0.18	Ø7.7 x 4.5	24S150	e
18	1.22	0.091	Ø0.30 x 0.18	Ø7.7 x 4.5	24S180	Shielded
22	1.1	0.12	Ø0.30 x 0.18	Ø7.7 x 4.5	24S220	등
33	0.9	0.19	Ø0.30 x 0.18	Ø7.7 x 4.5	24S330	
47	0.75	0.24	Ø0.30 x 0.18	Ø7.7 x 4.5	24S470	
68	0.63	0.37	Ø0.30 x 0.18	Ø7.7 x 4.5	24S680	
100	0.52	0.54	Ø0.30 x 0.18	Ø7.7 x 4.5	24S101	
150	0.42	0.86	Ø0.30 x 0.18	Ø7.7 x 4.5	24S151	
220	0.35	1.3	Ø0.30 x 0.18	Ø7.7 x 4.5	24S221	

2600 Series

Surface Mount Drum Core Inductors

Inductance: $3.3 \text{ to } 680 \mu\text{H}$ Current: Up to $4.6 \text{A} \mid_{\text{DC}}$

Operating temperature: $-40 \text{ to } 85^{\circ}\text{C}$

Height: 5.4mm (0.21")

Features: Shielded or Unshielded, Tape & Reel packaging

	Datasheet:			2600 Series			
	Inductance	Current	DC Resistance	Dimer	Dimensions		r
	μΗ	Α	Ω	Inches	mm		
	3.3	4.4	0.035	Ø0.39 x 0.21	Ø10.0 x 5.4	263R3	
	4.7	3.6	0.045	Ø0.39 x 0.21	Ø10.0 x 5.4	264R7	
	6.8	3.1	0.054	Ø0.39 x 0.21	Ø10.0 x 5.4	266R8	
	10	2.6	0.06	Ø0.39 x 0.21	Ø10.0 x 5.4	26100	믕
	12	2.42	0.068	Ø0.39 x 0.21	Ø10.0 x 5.4	26120	믕
ı	15	2.27	0.09	Ø0.39 x 0.21	Ø10.0 x 5.4	26150	Unshielded
	18	2.1	0.087	Ø0.39 x 0.21	Ø10.0 x 5.4	26180	들
	22	1.95	0.1	Ø0.39 x 0.21	Ø10.0 x 5.4	26220	
	33	1.5	0.12	Ø0.39 x 0.21	Ø10.0 x 5.4	26330	
	47	1.28	0.17	Ø0.39 x 0.21	Ø10.0 x 5.4	26470	

68	1.11	0.22	Ø0.39 x 0.21	Ø10.0 x 5.4	26680	
100	0.97	0.35	Ø0.39 x 0.21	Ø10.0 x 5.4	26101	-
150	0.78	0.47	Ø0.39 x 0.21	Ø10.0 x 5.4	26151	용
220	0.66	0.73	Ø0.39 x 0.21	Ø10.0 x 5.4	26221	ie i
330	0.52	1.2	Ø0.39 x 0.21	Ø10.0 x 5.4	26331	Unshielded
470	0.42	1.5	Ø0.39 x 0.21	Ø10.0 x 5.4	26471	_
680	0.28	2.3	Ø0.39 x 0.21	Ø10.0 x 5.4	26681	
0.0	4.0	0.000	Ø0 F0 0 01	Ø10.0F.4	000000	
3.3	4.6	0.033	Ø0.50 x 0.21	Ø12.6 x 5.4	26S3R3	-
4.7	3.8	0.038	Ø0.50 x 0.21	Ø12.6 x 5.4	26S4R7	_
6.8	3.21	0.043	Ø0.50 x 0.21	Ø12.6 x 5.4	26S6R8	
10	2.65	0.05	Ø0.50 x 0.21	Ø12.6 x 5.4	26S100	
12	2.55	0.058	Ø0.50 x 0.21	Ø12.6 x 5.4	26S120	
15	2.45	0.06	Ø0.50 x 0.21	Ø12.6 x 5.4	26S150	
18	2.32	0.074	Ø0.50 x 0.21	Ø12.6 x 5.4	26S180	
22	2.2	0.07	Ø0.50 x 0.21	Ø12.6 x 5.4	26S220	eq
33	1.8	0.1	Ø0.50 x 0.21	Ø12.6 x 5.4	26S330	Shielded
47	1.5	0.12	Ø0.50 x 0.21	Ø12.6 x 5.4	26S470	동
68	1.26	0.17	Ø0.50 x 0.21	Ø12.6 x 5.4	26\$680	
100	1.05	0.25	Ø0.50 x 0.21	Ø12.6 x 5.4	26S101	
150	0.85	0.4	Ø0.50 x 0.21	Ø12.6 x 5.4	26S151	
220	0.7	0.52	Ø0.50 x 0.21	Ø12.6 x 5.4	26S221	
330	0.57	0.8	Ø0.50 x 0.21	Ø12.6 x 5.4	26S331	
470	0.48	1.2	Ø0.50 x 0.21	Ø12.6 x 5.4	26S471	
680	0.4	1.8	Ø0.50 x 0.21	Ø12.6 x 5.4	26S681	

4000 Series

Surface Mount Toroidal Inductors

Inductance: 3.3 to $330\mu H$ Current: Up to $5.2AI_{DC}$

Operating temperature: -40 to 85°C

Height: 8.8mm (0.35")

Features: Toroidal construction reduces EMI

· out	Total Co. Totoladi construction readece Eivii					
Datas	sheet:		4000 Series			
Inductance	Current	DC Resistance	Dimensions		Model Number	
μH	А	Ω	Inches	mm		
3.3	5.2	0.017	0.56x0.56x0.35	14.1x14.2x8.8	403R3	
4.7	4.4	0.019	0.56x0.56x0.35	14.1x14.2x8.8	404R7	
6.8	3.6	0.02	0.56x0.56x0.35	14.1x14.2x8.8	406R8	
10	3	0.023	0.56x0.56x0.35	14.1x14.2x8.8	40100	
15	2.4	0.03	0.56x0.56x0.35	14.1x14.2x8.8	40150	
22	2.1	0.035	0.56x0.56x0.35	14.1x14.2x8.8	40220	
33	1.66	0.054	0.56x0.56x0.35	14.1x14.2x8.8	40330	
47	1.42	0.079	0.56x0.56x0.35	14.1x14.2x8.8	40470	
68	1.2	0.15	0.56x0.56x0.35	14.1x14.2x8.8	40680	
100	0.94	0.18	0.56x0.56x0.35	14.1x14.2x8.8	40101	
150	0.76	0.27	0.56x0.56x0.35	14.1x14.2x8.8	40151	
220	0.67	0.41	0.56x0.56x0.35	14.1x14.2x8.8	40221	

For full datasheets go to: www.cd4power.com/magnetics



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330 0.54 0.61 0.56x0.56x0.35 14.1x14.2x8.8

4100 Series

Surface Mount Toroidal Inductors

Inductance: 2.7 to 330uH **Current:** Up to 8.1A I_{nc}

Operating temperature: -40 to 85°C

Height: 9.9mm (0.39")

Features: Toroidal construction reduces EMI



Datas	sheet:		4100 Series		
Inductance	Current	DC Resistance	Dimer	Model Number	
μΗ	А	Ω	Inches	mm	
2.7	8.1	0.014	0.66x0.69x0.39	16.8x17.5x9.9	412R7
4.7	6.7	0.018	0.66x0.69x0.39	16.8x17.5x9.9	414R7
6.8	5.7	0.02	0.66x0.69x0.39	16.8x17.5x9.9	416R8
10	4.7	0.024	0.66x0.69x0.39	16.8x17.5x9.9	41100
15	4	0.028	0.66x0.69x0.39	16.8x17.5x9.9	41150
22	3.3	0.033	0.66x0.69x0.39	16.8x17.5x9.9	41220
33	2.7	0.038	0.66x0.69x0.39	16.8x17.5x9.9	41330
47	2.2	0.062	0.66x0.69x0.39	16.8x17.5x9.9	41470
68	1.75	0.11	0.66x0.69x0.39	16.8x17.5x9.9	41680
100	1.47	0.16	0.66x0.69x0.39	16.8x17.5x9.9	41101
150	1.16	0.25	0.66x0.69x0.39	16.8x17.5x9.9	41151
220	1.03	0.38	0.66x0.69x0.39	16.8x17.5x9.9	41221
330	0.83	0.46	0.66x0.69x0.39	16.8x17.5x9.9	41331

4700 Series

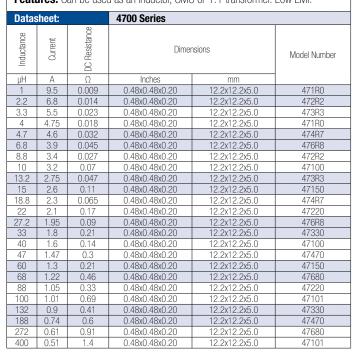
Shielded SM Dual Wound Inductors

Inductance: 1.0 to 400µH **Current:** Up to 9.5A I_{nc}

Operating temperature: -40 to 85°C

Height: 5.0mm (0.20")

Features: Can be used as an inductor, CMC or 1:1 transformer. Low EMI.



4800 Series

Shielded SM Dual Wound Inductors

Inductance: 1.0 to 400µH **Current:** Up to 12.3A I_{nc}

Operating temperature: -40 to 85°C

Height: 6.2mm (0.24")

Features: Can be used as an inductor, CMC or 1:1 transformer. Low EMI.

Datas	sheet:		4800 Series		
Inductance	Current	DC Resistance	Dimensions		Model Number
μН	А	Ω	Inches	mm	
1	12.3	0.009	0.48x0.48x0.24	12.2x12.2x6.2	481R0
2.2	8.3	0.014	0.48x0.48x0.24	12.2x12.2x6.2	482R2
3.3	6.8	0.019	0.48x0.48x0.24	12.2x12.2x6.2	483R3
4	6.15	0.018	0.48x0.48x0.24	12.2x12.2x6.2	481R0
4.7	5.7	0.029	0.48x0.48x0.24	12.2x12.2x6.2	484R7
6.8	4.7	0.04	0.48x0.48x0.24	12.2x12.2x6.2	486R8
8.8	4.15	0.027	0.48x0.48x0.24	12.2x12.2x6.2	482R2
10	3.9	0.061	0.48x0.48x0.24	12.2x12.2x6.2	48100
13.2	3.4	0.038	0.48x0.48x0.24	12.2x12.2x6.2	483R3
15	3.2	0.077	0.48x0.48x0.24	12.2x12.2x6.2	48150
18.8	2.85	0.059	0.48x0.48x0.24	12.2x12.2x6.2	484R7
22	2.6	0.12	0.48x0.48x0.24	12.2x12.2x6.2	48220
27.2	2.35	0.08	0.48x0.48x0.24	12.2x12.2x6.2	486R8
33	2.1	0.18	0.48x0.48x0.24	12.2x12.2x6.2	48330
40	1.95	0.12	0.48x0.48x0.24	12.2x12.2x6.2	48100
47	1.8	0.27	0.48x0.48x0.24	12.2x12.2x6.2	48470
60	1.6	0.15	0.48x0.48x0.24	12.2x12.2x6.2	48150
68	1.5	0.41	0.48x0.48x0.24	12.2x12.2x6.2	48680
88	1.3	0.24	0.48x0.48x0.24	12.2x12.2x6.2	48220
100	1.23	0.5	0.48x0.48x0.24	12.2x12.2x6.2	48101
132	1.05	0.37	0.48x0.48x0.24	12.2x12.2x6.2	48330
188	0.9	0.55	0.48x0.48x0.24	12.2x12.2x6.2	48470
272	0.75	0.82	0.48x0.48x0.24	12.2x12.2x6.2	48680
400	0.62	1	0.48x0.48x0.24	12.2x12.2x6.2	48101

4900 Series

Shielded SM Dual Wound Inductors

Inductance: 2.2 to 880µH **Current:** Up to 9.5A I_{DC}

Operating temperature: -40 to 85°C

Height: 8.0mm (0.31")

Features: Can be used as an inductor, CMC or 1:1 transformer. Low EMI.

Datas	sheet:		4700 Series		
Inductance	Current	DC Resistance	Dime	nsions	Model Number
μH	А	Ω	Inches	mm	
2.2	9.5	0.013	0.47x0.47x0.31	12.0x12.0x8.0	492R2
3.3	7.8	0.015	0.47x0.47x0.31	12.0x12.0x8.0	493R3
4.7	6.5	0.017	0.47x0.47x0.31	12.0x12.0x8.0	494R7
6.8	5.4	0.027	0.47x0.47x0.31	12.0x12.0x8.0	496R8
8.8	4.75	0.025	0.47x0.47x0.31	12.0x12.0x8.0	492R2
10	4.5	0.041	0.47x0.47x0.31 12.0x12.0x8.0		49100
13.2	3.9	0.03	0.47x0.47x0.31	12.0x12.0x8.0	493R3
15	3.7	0.053	0.47x0.47x0.31	12.0x12.0x8.0	49150
18.8	3.25	0.034	0.47x0.47x0.31	12.0x12.0x8.0	494R7
22	3	0.081	0.47x0.47x0.31	12.0x12.0x8.0	49220
27.2	2.7	0.054	0.47x0.47x0.31	12.0x12.0x8.0	496R8
33	2.5	0.13	0.47x0.47x0.31	12.0x12.0x8.0	49330
40	2.25	0.082	0.47x0.47x0.31	12.0x12.0x8.0	49100
47	2.1	0.19	0.47x0.47x0.31	12.0x12.0x8.0	49470
60	1.85	0.11	0.47x0.47x0.31	12.0x12.0x8.0	49150
			*		Continued on page 8

For full datasheets go to: www.cd4power.com/magnetics



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Continued from page 7

68	1.71	0.23	0.47x0.47x0.31	12.0x12.0x8.0	49680
88	1.5	0.16	0.47x0.47x0.31	12.0x12.0x8.0	49220
100	1.41	0.35	0.47x0.47x0.31	12.0x12.0x8.0	49101
132	1.25	0.26	0.47x0.47x0.31	12.0x12.0x8.0	49330
150	1.15	0.53	0.47x0.47x0.31	12.0x12.0x8.0	49151
188	1.05	0.38	0.47x0.47x0.31	12.0x12.0x8.0	49470
220	0.95	0.81	0.47x0.47x0.31	12.0x12.0x8.0	49221
272	0.86	0.47	0.47x0.47x0.31	12.0x12.0x8.0	49680
400	0.71	0.7	0.47x0.47x0.31	12.0x12.0x8.0	49101
600	0.58	1.1	0.47x0.47x0.31	12.0x12.0x8.0	49151
880	0.48	1.6	0.47x0.47x0.31	12.0x12.0x8.0	49221

786 Series

General Purpose Pulse Transformers

- Toroidal Construction reduces EMI
- Up to 56VµS E₊ Constant
- Isolation Voltage to 1kV_{RMS}
- DIL/SMD Packages Available
- Tape & Reel option



1	nn	N	Series
	VU	v	

Pulse Transformers

- Industry Standard TH Pinout
- Up to 400VµS E₊ Constant
- UL94V-0 Rated Package Material



Datast	neet:		10	00 S	erie	S			
Turns Ratio (±2%)	Primary ET Constant (Min)	Primary Inductance (Min)	Primary O	Secondary 1 sise	Secondary 2	Isolation Voltage (Max)	Leakage Inductance (Max)	Interwinding Capacitance (Max)	Model Number
	Vµs	mΗ	Ω	Ω	Ω	Vrms	μΗ	pF	
1:1	200	3	1.2	1.0	-	2000	22	23	1001
1:1	200	3	1.4	1.3	1.7	2000	9	28	1002
2.1.1	400	12	40	1.8	24	2000	35	30	1003

Datashe	et.		786.9	Series		
Datasiic		40			D 0	
iệ (Primary ET Constant (Min)	Primary Inductance (Min)	Primary DC Resistance	Leakage Inductance (Max)	Interwinding Capacitance (Max)	
irns Rat (±2%)	Primar Const (Min)	Primary nductano (Min)	imal	eakag Iuctan (Max)	erwind bacitar (Max)	Model
Turns Ratio (±2%)	_ E	- E	~ ~	7 24	<u> </u>	Number
	Vµs	μH	Ω	μH	pF	
1:1	4	100	0.17	0.19	8	78601/4
1:1	6	200	0.25	0.2	14	78601/3
1:1	10	500	0.34	0.25	22	78601/2
1:1	15	1000	0.45	0.29	35	78601/8
1:1	20	2000	0.6	0.47	49	78601/1
1:1	28	5000	0.84	0.47	78	78601/16
1:1	56	10000	1.3	0.86	121	78601/9
1:1:1	4	100	0.18	0.11	12	78602/4
1:1:1	6	200	0.24	0.17	19	78602/3
1:1:1	10	500	0.34	0.27	32	78602/2
1:1:1	15	1000	0.46	0.35	47	78602/8
1:1:1	20	2000	0.66	0.6	72	78602/1
1:1:1	28	5000	0.92	0.71	116	78602/16
1:1:1	56	10000	1.34	0.71	167	78602/9
2:1	4	100	0.18	0.41	4	78604/4
2:1	6	200	0.25	0.49	9	78604/3
2:1	10	500	0.34	0.65	13	78604/2
2:1	15	1000	0.46	0.76	20	78604/8
2:1	20	2000	0.6	0.99	29	78604/1
2:1	28	5000	0.85	1.61	50	78604/16
2:1	56	10000	1.23	1.64	72	78604/9
1CT:1	4	100	0.2	0.3	7	78613/4
1CT:1	6	200	0.25	0.65	12	78613/3
1CT:1	10	500	0.36	1.07	20	78613/2
1CT:1	15	1000	0.48	1.13	35	78613/8
1CT:1	20	2000	0.63	1.53	47	78613/1
1CT:1	28	5000	0.88	1.98	64	78613/16
1CT:1	56	10000	1.33	3.83 1.21	72	78613/9
1CT:1CT	4	100	0.17	1.21	3	78615/4
1CT:1CT	6	200	0.24	3.64	5	78615/3
1CT:1CT	10	500	0.34	6.86	7	78615/2
1CT:1CT	15	1000	0.45	11.9	10	78615/8
1CT:1CT	20	2000	0.6	16	16	78615/1
1CT:1CT	28	5000	0.87	37.7	20	78615/16
1CT:1CT	56	10000	1.33	44.5	19	78615/9

766 Series

General Purpose Pulse Transformers

- Toroidal construction reduces EMI
- Up to 50VµS E, Constant
- Used in Line Coupling, Matching and Isolating Applications
- 1:1 Variants can also be used as Common Mode Chokes
- Isolation Voltage to 500V_{pc}

Datasheet:



	Turns Ratio (±2%)	Primary ET Constant (Min)	Primary Inductance (Min)	Primary DC Resistance	Leakage Inductance (Max)	Interwinding Capacitance (Max)	Model Number
L		Vµs	μH	Ω	μH	pF	
	1:1	17.5	2060	1.5	0.6	49	76600/1
	1:1	8.5	492	0.8	0.3	22	76600/2
ſ	1:1	5.5	219	0.5	0.25	14	76600/3
	1:1	4	50	0.4	0.2	10	76600/4
	1:1	18.5	2060	1.5	0.6	49	76601/1
	1:1	9.5	492	0.8	0.3	22	76601/2
	1:1	2.5	20.1	0.2	0.2	5	76601/20
	1:1	10.5	938	0.15	0.2	35	76601/23
4	1:1	50.5	1170	1.35	0.4	250	76601/24
1	1:1	6.5	219	0.5	0.25	12	76601/3
	1:1	6	9.5	0.4	0.2	13	76601/6
1	1:1	17.5	2060	1.5	0.6	72	76602/1
	1CT:1CT	45	3200	1.0	2	52	76615/1
Ī	2CT:1CT	23	4350	1.0	3	35	76616/3
ı							

766 Series

5600 Series

Current Sensing Transformers

- 50, 100, 200 & 300 Turn variants
- Primary current rating to 10A
- Primary to secondary isolation 500VDC
- 20kHz-200kHz frequency range
- Centre tapped variants available

	1	60	1	
56100 G0351	00	56100 G0351		
4000	1	-	6	

Datas	heet:		5600 Series	
Number of Turns	Inductance Range	DC Resistance	Terminating Resistance to Produce 1VOUT/1AIN	Model Number
±1Turn	Pins 1&3, 5kHz	Pins 1&3, Ω	Ω ±5%	1
50	5.00 - 9.30mH @1V	0.133 - 0.199	50	56050
100	20.0 - 37.0mH @1V	0.93 - 1.40	100	56100
200	80.0 - 150mH @2V	1.87 - 2.81	200	56200
300	180 - 335mH @3V	5.73 - 8.59	300	56300
100CT	20.0 - 37.0mH @1V	0.93 - 1.40	100	56T100
200CT	80.0 - 150mH @2V	1.87 - 2.81	200	56T200
300CT	180 - 335mH @3V	5.73 - 8.59	300	56T300

For full datasheets go to: www.cd4power.com/magnetics



Transfomers

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Maxim Compatible Transformers

- For use with MAX250 & MAX253 Chipsets
- 3.3 & 5.0V Versions
- EN60950 Versions Available 6kV_{nc} Isolation
- Tape & Reel and SMD Options
- Operating Frequency Range to 500kHz
- Toroidal construction reduces EMI



Datasheets:	76250EN, 76235/XXEN	/ 7825	0 Serie	s / 7825	3
Parameter	Conditions	Min	Тур	Max	Units
78250(M) – Turns Ratio 1:1 (I		IVIIII		eet: 7825	
Isolation Voltage	Flash tested for 1 second	1.5	Dataon	000 7020	kVrms
Primary Inductance L _P	10kHz, 100mV	1.0	2.0	2.5	mH
Leakage Inductance Li	100kHz, 100mV	1.0	2.0	3.0	μН
Interwinding Capacitance Cww	100kHz, 100mV		5.0	10	pF
DC Resistance R _{DC}	<0.1VDC		1.0	2.0	Ω
Volt-time Product E _T	5kHz, 5V	50	1.0	2.0	Vµs
78250(M)V – Turns Ratio 1:1	(MAX 250 Compatible)	- 50	Datash	eet: 7825	
Isolation Voltage	Flash tested for 1 second	7.0	Datasii	CCL. FOEC	kVrms
Primary Inductance L _P	10kHz, 100mV	1.0	2.0	2.5	mH
Leakage Inductance L _L	100kHz, 100mV	1.0	35	40	μН
Interwinding Capacitance C _{WW}	100kHz, 100mV		9	12	pF
DC Resistance R _{DC}	<0.1VDC		1.4	1.8	Ω
Volt-time Product E _T	5kHz, 5V	50	1.7	1.0	Vµs
76250EN – Turns Ratio 1CT:1		30	Dat	asheet: 7	
solation Voltage	Flash tested for 1 second	6.0	Dat	asileet. 1	kVDC
Primary Inductance L _P	10kHz, 100mV	1.0	2.0	2.5	mH
Leakage Inductance L _P	100kHz, 100mV	1.0	35	40	μН
nterwinding Capacitance C _{ww}	100kHz, 100mV	-	5.0	10	pF
	<0.1VDC				
DC Resistance R _{DC} Volt-time Product E _T	5kHz, 5V	50	1.0	2.0	Ω Vµs
78253/35(M) - Turns Ratio 1:		50	Detech	eet: 7825	
		1.5	Datasn	eet: /825	
Isolation Voltage	Flash tested for 1 second	1.5	0.00	0.40	kVDC
Primary Inductance L _P	100kHz, 250mV	0.30	0.38	0.46	mH
Secondary Inductance L _S	100kHz, 250mV	1.60	2.00	2.40	mH
Leakage Inductance LL	100kHz, 250mV		0.30	1.00	μH
Interwinding Capacitance C _{WW}	100kHz, 250mV		30	50	pF
DC Resistance R _{DC}	<0.1VDC		0.40	1.00	Ω
Volt-time Product E _T	5kHz, 5V	50	80		Vµs
78253/35(M)V - Turns Ratio 1		1.0	Datash	eet: 7825	
Isolation Voltage	Flash tested for 1 second	4.0			kVDC
Primary Inductance L _P	100kHz, 20mV	110	142	185	μH
Secondary Inductance L _S	100kHz, 20mV	550	710	850	μH
Leakage Inductance L _L	100kHz, 250mV		3.00	5.00	μH
Interwinding Capacitance C _{ww}	100kHz, 250mV		4.20	8.00	pF
DC Resistance R _{DC}	<0.1VDC		0.30	0.50	Ω
Volt-time Product E _T	5kHz, 5V	30	42		Vµs
76253/35EN - Turns Ratio 1:-			Dat	asheet: 7	
Isolation Voltage	Flash tested for 1 second	6.0			kVDC
Primary Inductance L _P	100kHz, 250mV	53	92	120	μH
Secondary Inductance L _S	100kHz, 250mV	350	460	600	μH
Leakage Inductance L _L	100kHz, 250mV		1.5	3.6	μH
Interwinding Capacitance Cww	100kHz, 250mV		1.8	3.00	pF
DC Resistance R _{DC}	<0.1VDC		0.60	1.00	Ω
Volt-time Product E _T	5kHz, 5V	20	35		Vµs
78253/55(M) - Turns Ratio 1:	1.33 (MAX 253 Compatible)		Datash	eet: 7825	3 Serie
Isolation Voltage	Flash tested for 1 second	1.5			kVDC
Primary Inductance L _P	100kHz, 250mV	0.60	0.83	1.10	μН
Secondary Inductance L _S	100kHz, 250mV	1.10	1.40	1.70	μH
Leakage Inductance L _L	100kHz, 250mV		0.35	1.00	μH
Interwinding Capacitance Cww	100kHz, 250mV		30	50	pF
DC Resistance R _{DC}	<0.1VDC		0.70	1.50	Ω
Volt-time Product E _T	5kHz, 5V	50	65		Vµs
	1:1.33 (MAX 253 Compatible)			eet: 7825	
solation Voltage	Flash tested for 1 second	4.0			kVDC
Primary Inductance L _P	100kHz, 20mV	190	240	310	μН
Secondary Inductance Ls	100kHz, 20mV	350	444	540	μН
Leakage Inductance L ₁	100kHz, 250mV	1	5.20	8.00	μН
Interwinding Capacitance C _{WW}	100kHz, 250mV	1	4.20	8.00	pF
DC Resistance R _{DC}	<0.1VDC		0.40	0.60	Ω
				asheet: 7	
76253/55EN - Turns Ratio 1:					
76253/55EN – Turns Ratio 1: solation Voltage	Flash tested for 1 second	6.0			kVDC

Secondary Inductance L _S	100kHz, 250mV	280	362	445	μН
Leakage Inductance L _L	100kHz, 250mV		3.90	5.00	μH
Interwinding Capacitance Cww	100kHz, 250mV		1.20	3.00	pF
DC Resistance R _{DC}	<0.1VDC		0.90	1.50	Ω
Volt-time Product E _T	5kHz, 5V	20	23		Vµs

Dual & Quad Databus Isolators

- TTL to CMOS Bi-Directional Logic Conversion
- Toroidal construction reduces EMI
- Dual/Quad Variants
- Isolation Voltage to 700V_{nc}
- Low Profile



Datasheets:			160	0 Se	ries		
Isolator Type	Function	Pulse Width (Max)	Turns Ratio	Primary Inductance (Typ)	Interwinding Capacitance (Typical)	Package Style	Model Number
		μs		mΗ	pF		
Dual	5V to 5V Logic Isolation	5	1:1	3	60	DIL	1601
Quad	5V to 5V Logic Isolation	5	1:1	3	60	DIL	1600
Quad	5V to 15V Logic Isolation	2.6	1:3	1	34	DIL	1630

Digital Audio Transformers

- Designed for use in Audio Equipment (eg. Hi-Fi, Video etc.)
- Compliant with AES/EBU Standards
- Isolation to 1kV_{RMS}
 Tape & Reel and SMD Options Available
- · Compatible with Leading Chipsets



Datas	heets:			DA10	O Series		
Turns Ratio	E _τ Constant (Min)	Primary Inductance (Min)	Leakage Inductance (Max)	Return Loss (Min)	Common Mode Rejection (Typ)	Package Style	Model Number
	Vµs	mH	μH	dB	dB	ag.	
	15	1.00-1.59	0.22	46.8	52.1		DA101
	20	2.00-3.00	0.39	40.4	49.7	DIL	DA102
1:1	28	4.00-5.96	0.91	36.3	46.4		DA103
111	15	1.00-1.59	0.22	46.8	52.1		DA101M-R
	20	2.00-3.00	0.39	40.4	49.7	SMD	DA102M-R
	28	4.00-5.96	0.91	36.3	46.4		DA103M-R

Differential/Common-Mode Filters

- Compatible with most modern switching DC/DC converters
- Provides both CM & DM filtering
- UL Approved
- UL94V-0 Rated Package Material



Average Current	Input Voltage	Typical Resistance Per Leg	Common Mode Insertion Loss	Differential Mode Insertion Loss	Model Number
A (Max.)	V (Max.)	mΩ (Max.)	dB (Typ.)	dB (Typ.)	
10	100	4.8	-37	-58	FLT-100V10
20	100	9.5	-29	-48	FLT-100V20

For full datasheets go to: www.cd4power.com/magnetics



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Corporate Overview

C&D Technologies

...Powering Innovation

Well Proven Designs



To allow you to design C&D products into your application with absolute confidence, we operate a comprehensive program of design verification.

This Design Verification Testing (DVT) process ensures that the specifications stated on our datasheets accurately represent the performance of our products. Tests are product specific but generally include:

Test	Standard
Electrical Characteristics	C&D Technologies internal
Solderability	CEIA ANSI/J-STD-002
Lead Temperature (Solder Heat)	C&D Technologies internal
Peak Reflow Temperature	CECC 00802
Isolation	C&D Technologies internal
Lead Finish Adhesion	Mil-Std 883E/2025.4
Temperature Cycling	Mil-Std 883E/1010.7
Mechanical Shock	Mil-Std 883E/2002.3
Vibration	Mil-Std 883E/2007.2
Bump	ETS 300 019-2-4
High Temperature Storage Life	EIA JESD 22-A103-A
Humidity Bias	EIA JESD 22-A101-B
Flammability	BS EN 60695-11-7
Lead Integrity Tension & Fatigue	Mil-Std 883E/2004
Solvent Resistance	Mil-Std 883E/2015.11
Coplanarity	EIA JESD22-B108

Environmental Responsibility



C&D Technologies is committed to achieving compliance with the European RoHS and WEEE directives which aim to reduce waste and its impact on the environment.

RoHS (Restriction of Hazardous Substances) Directive

RoHS is a European Parliament Directive requiring member states to legislate that electrical/electronic equipment sold after July 1st 2006 does not contain six potentially hazardous substances including lead (Pb).

WEEE (Waste Electrical & Electronic Equipment) Directive

This is another European directive which aims to:

- reduce the amount of electrical waste that is dumped in land fill sites every year within the European community
- develop a holistic view, on a global basis, that there is a real requirement to adopt a "cradle to grave" philosophy relating to Producer Responsibility.

These directives are among many legislative activities around the world which are driving the conversion to RoHS compliant, Pb-free components.

Our Policy

At C&D Technologies we have put in place comprehensive plans to migrate to RoHS compliant technologies with minimum disruption to customers and without compromise in critical areas such as product performance, reliability and cost.

Since the announcement of the RoHS Directive we have been working with our supplier base to eliminate non-compliant materials from the components in our products. Pb-free assembly lines are in place at all our manufacturing facilities to ensure that all available products are RoHS compliant by the July 06 deadline.

We constantly strive to improve our manufacturing processes and improve our level of environmental awareness. In addition to the move to Pb-free processes, recycling of waste materials, reduction of energy used, and the design of new products to accommodate end of life recycling are key areas where we are making positive progress towards a more environmentally friendly future.

For the latest information please visit our website.

For full datasheets go to: www.cd4power.com/magnetics



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DC/DC Converters

C&D Technologies are proud to offer the largest range of DC/DC Converters available from a single manufacturer. Our ever increasing product portfolio includes all the options you'll ever need, including:



 Isolated DC/DC Converters Single, dual, triple and guad output from 0.25 to 340 Watts

Point-of-Load Converters From 0.75 to 5V outputs (including user-selectable

Processor & Memory Support Support for 64 & 32-bit processors and DDR1 & DDR2 memory.

versions) at current levels from 0.5 to 50A.

 Bus Converters Designed to take advantage of the high-efficiency and cost savings of intermediate bus architectures.

Digital Power Digital IBA - a multi-source open architecture power solution that utilizes and industry-standard 1²C interface to allow you to configure your power system (up to 32 PoLs) in less than 1 hour.

Factorized Power Vel Chips delivering up to 300W available in 'inboard' BGA configuration or as 'on-board' J-lead



C&D Technologies has AC/DC power supplies to meet every possible application requirement in terms of power, performance, efficiency, protection, size, approvals compliance, and cooling requirements.



Our military specialists at Celab have over 30 years' experience designing and producing power supplies for Avionic, Naval, Tracked, Land and Portable.



Ultra-reliable, ruggedized power supplies for harsh **CATV** and Telecommunications



PCI & cPCI

From 200-500W, many with IPMI functionality in packages as small as 3U x 4HP

Configurable 400-1000W, up to 12 Output, general & medical configurations



Front End Modules for DPAs

AC to 48VDC ultra compact front end supplies for distributed power architectures with active power factor correction



Custom Power Supplies

Our design teams have the engineering expertise, experience, tools, processes and manufacturing capabilities to meet your needs

Digital Panel Meters

Over 25 years of designing and manufacturing digital panel meters has not dulled our spirit of innovation. Today we are focusing on specific applications of 2-wire meters, process monitors and AC or DC ammeters that are the easiest-to-use, most affordable meters available.



General Purpose Voltmeters

Versatile, 12-pin, dual-in-line package offering component like "plug-in" convenience for pc-board mounting as well as a built-in bezel for easy panel mounting.



2-Wire Meters

Power your measuring instrument with the signal you're measuring! Measure the voltage at a standard USA-style wall outlet simply by "plugging in" an AC line monitor. Monitor the 400MHz frequency of an aircraft power generator without worrying about "proper" grounding.



Process Monitors

4/20mA and 0-10V process control monitors

AC Ammeters Directly measure AC currents from 0-2A to 0-100A



DC Ammeters

Include built-in shunts, reverse-polarity protection, and connections for all supply and load wiring

Data Acquisition

Our leadership status in high-performance data acquisition components is unchallenged. Our outstanding electrical performance, small packaging, low-power consumption and easeof-use will genuinely impress you.



Electronic Imaging

Resolution from 8 to 18-bits and sampling rates 20MSPS, Low cost commercial and military high-reliability versions



A/D Converters

Sampling A/D Converters

Ideal for high-end applications such as medical or life-science imaging, analytical instrumentation and military pulse and spread-spectrum applications



Digital-to-Analog Converters Settling times to 20 nanoseconds, update rates to



Sample/Hold Amplifiers Accuracies from 0.01% to 0.0008% (12 to 16 bit equivalent resolution)



Single-Package Data Acquisition Multi-channel with differential or single-ended options

Multiplexers

For full datasheets go to: www.cd4power.com/magnetics

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