

### GENERAL DESCRIPTION

In applications with restrictions on height or area, the size of the inductor can be a problem. Selection of suitably sized components is important for a small or low-profile application such as a mobile phone. Shown below is a list of small, or low-profile, inductors that can be used in such applications where height or space is an issue.

Part Number	Manufacturer	L value	Rdc (TYP.)	I <sub>DC</sub> (A)		Dimensions (MAX.)	
		( $\mu$ H)	( $\Omega$ )	①	②	W (mm) x L (mm)	H (mm)
VLF3010AT-3R3	TDK	3.3	0.15	0.87	1.00	2.8 x 3.0	1.0
VLF3010AT-4R7		4.7	0.24	0.70	0.82		
VLF3010AT-6R8		6.8	0.34	0.61	0.68		
VLF3010AT-100		10.0	0.58	0.49	0.52		
VLF3010AT-220		22.0	1.30	0.33	0.35		
VLF3012AT-3R3		3.3	0.11	0.87	1.20	2.8 x 3.0	1.2
VLF3012AT-4R7		4.7	0.16	0.74	0.98		
VLF3012AT-6R8		6.8	0.23	0.59	0.83		
VLF3012AT-100		10.0	0.36	0.49	0.67		
VLF3012AT-220		22.0	0.66	0.33	0.49		
VLF3012AT-470	47.0	1.90	0.22	0.29			
CDRH2D18/LD-3R3	TDK	3.3	0.04	0.75	2.10	3.2 x 3.2	2.0
CDRH2D18/LD-4R7		4.7	0.06	0.66	1.65		
CDRH2D18/LD-6R8		6.8	0.09	0.52	1.32		
CDRH2D18/LD-100		10.0	0.15	0.43	1.00		
CDRH2D18/LD-220		22.0	0.26	0.30	0.68		
CDRH2D18/LD-470		47.0	0.53	0.20	0.48		
CDRH4D18C-3R0	SUMIDA	3.0	0.05	1.500		5.1 x 5.1	2.0
CDRH4D18C-4R7		4.7	0.09	1.150			
CDRH4D18C-6R8		6.8	0.10	1.050			
CDRH4D18C-100		10.0	0.13	0.830			
CDRH4D18C-220		22.0	0.26	0.600			
CDRH4D18C-470		47.0	0.63	0.410			
CDRH4D18C-680		68.0	0.93	0.305			
CDPH4D19F-3R3		3.3	0.03	1.50	3.80	5.2 x 5.2	2.0
CDPH4D19F-4R7		4.7	0.03	1.15	3.30		
CDPH4D19F-6R8		6.8	0.04	1.00	3.02		
CDPH4D19F-100	10.0	0.05	0.80	2.32			
CDPH4D19F-220	22.0	0.11	0.54	1.44			
CDPH4D19F-470	47.0	0.23	0.36	1.03			
CDRH4D28C-3R2	3.2	0.03	2.30		5.1 x 5.1	3.0	
CDRH4D28C-4R7	4.7	0.05	1.80				
CDRH4D28C-6R3	6.3	0.08	1.30				
CDRH4D28C-100	10.0	0.09	1.26				
CDRH4D28C-220	22.0	0.17	0.85				
CDRH4D28C-470	47.0	0.41	0.54				
CDRH4D28C-680	68.0	0.50	0.49				
CBC2016T4R7M	TAIYO YUDEN	4.7	0.37	0.55			0.53
CBC2016T100M		10.0	0.82	0.38	0.41		
CBC2016T220M		22.0	1.80	0.25	0.24		
CBC2518T4R7M		4.7	0.20	0.68	0.92	2.0 x 2.7	2.0
CBC2518T100M		10.0	0.36	0.48	0.68		
CBC2518T220M		22.0	0.77	0.32	0.46		
CBC2518T470M		47.0	1.90	0.24	0.29		

① With SUMIDA, the IDC current value shown is when the inductance  $\Delta L/L$  is more than 65%.

For TDK and TAIYO YUDEN, the IDC current values shown are when the inductance value  $\Delta L/L$  is - 30%.

② This is the IDC current value when the inductance temperature increase is less than  $\Delta T=40^{\circ}\text{C}$ .

\* Where only one value for IDC is shown, whichever value from ① or ② was the lower has been selected.

The data shown above is derived from the manufacturers' catalogs and is intended for selection of peripheral components for use with power ICs. Specifications are subject to change. For the latest information on these products, contact the manufacturers. Torex is not be liable for any defects caused by the data shown above.