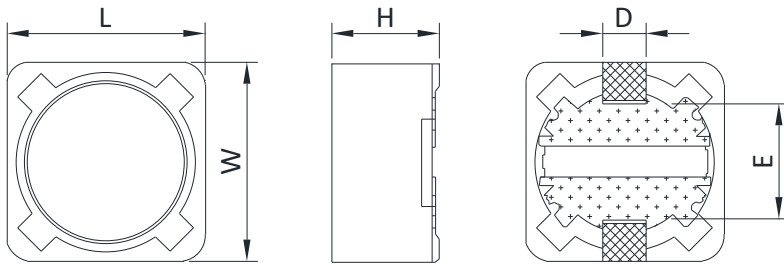


### Product Outline

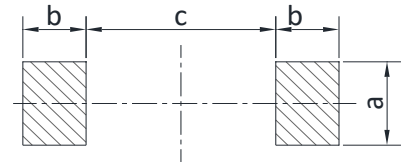
- Magnetically shielded type.
- A wide range of product line up is available to meet the various requirements.
- For DC/DC converter applications.
- Ideally used in n Notebook PC, LCD TV,DVD, Game machine, STB, Projector etc as DC-DC converter inductors.
- Custom design is also available.
- RoHS compliant.



### Dimensions



### Recommended Land Patterns



Unit: mm

Type	L	W	H	D	E	a	b	c	Packaging (pcs/reel)
CDRH74	7.3±0.2	7.3±0.2	4.5 Max.	1.8	5.4	2.2	1.6	4.8	1000

Dimensions without tolerance are typical.

### Product Identification

CDRH   74   -   180   M  
 (1)        (2)                      (3)        (4)

(1) Product Series No.

(2) Dimension Symbol:

74=7.3 x 7.3 x 4.5mm (L x W x H)

(3) Inductance Value:

180=18×10<sup>0</sup>uH=18uH    821=82×10<sup>1</sup>uH=820uH

(4) Tolerance:

K=±10%    L=±15%    M=±20%    P=±25%    N=±30%

### Electrical Characteristics(at 25°C)

Part Number	Inductance ① (uH)	Inductance tolerance	DCR ② (mΩ) Max.	DCR ② (mΩ) Typ.	Irated ③ (A)
CDRH74-100M	10	±20%	49.0	38.0	1.84
CDRH74-120M	12	±20%	58.0	44.0	1.71
CDRH74-150M	15	±20%	81.0	62.0	1.47
CDRH74-180M	18	±20%	91.0	70.0	1.31
CDRH74-220M	22	±20%	110	77.0	1.23
CDRH74-270M	27	±20%	150	120	1.12
CDRH74-330M	33	±20%	170	130	0.96
CDRH74-390M	39	±20%	230	180	0.91
CDRH74-470M	47	±20%	260	200	0.88
CDRH74-560M	56	±20%	350	270	0.75
CDRH74-680M	68	±20%	380	300	0.69
CDRH74-820M	82	±20%	430	330	0.61
CDRH74-101M	100	±20%	610	470	0.60
CDRH74-121M	120	±20%	660	510	0.52
CDRH74-151M	150	±20%	880	680	0.46
CDRH74-181M	180	±20%	980	760	0.42
CDRH74-221M	220	±20%	1170	900	0.36
CDRH74-271M	270	±20%	1640	1320	0.34
CDRH74-331M	330	±20%	1860	1490	0.32
CDRH74-391M	390	±20%	2850	2280	0.29
CDRH74-471M	470	±20%	3010	2410	0.26
CDRH74-561M	560	±20%	3620	2890	0.23
CDRH74-681M	680	±20%	4630	3710	0.22
CDRH74-821M	820	±20%	5200	4160	0.20
CDRH74-102M	1000	±20%	6000	4800	0.18

Note:

- ① Inductance tested at 1kHz using an Agilent/HP 4192A or equivalent.
- ② DCR measured on a micro-ohmmeter.
- ③ Irated: The DC current at which the inductance decreases by 25% of its initial value or when  $\Delta T=40^{\circ}\text{C}$ , whichever is lower ( $T_a=25^{\circ}\text{C}$ ).