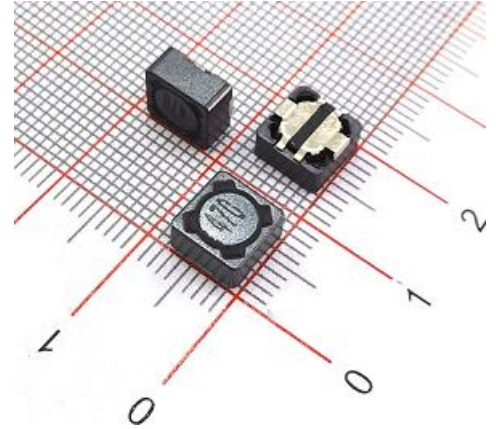


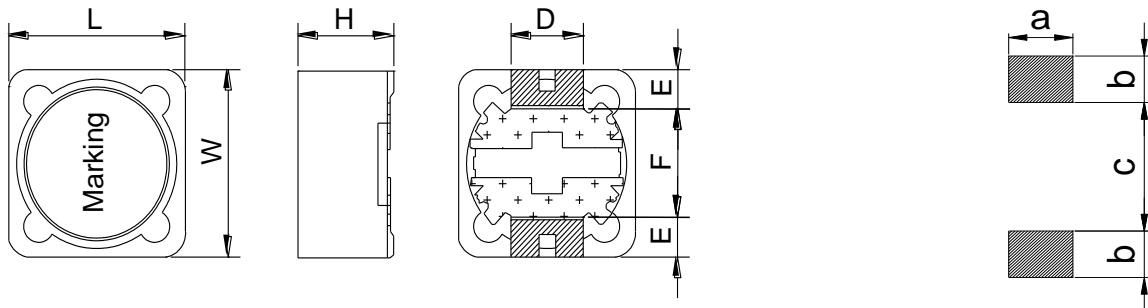
Product outline

- Magnetically shielded types.
- A wide range of product line up is available to meet various requirements.
- Excellent saturation current handling to be up to 1.84A.
- For DC/DC converter applications.
- Ideally used in car navigation, LED Lighting, Notebook PC, power modules, etc.
- Custom design is also available.
- RoHS compliant.



Dimensions

Recommended Land Pattern



Unit: mm

Type	L	W	H	D	E	F	a	b	c	Packaging (pcs/reel)
KTDRH74S	7.8	7.8	5.0 max.	1.8	1.0	5.4	2.2	1.6	4.8	1000

Dimensions without tolerance are typical.

Product Identification

KTDRH 74 S - 470 M C S
 (1) (2) (3) (4) (5) (6) (7)

(1) Product Series No.

(2) Dimension symbol.

74=7.8x7.8x5.0mm (L x W x H)

(3) Internal control code.

(4) Inductance value.

100=10×10⁰ uH=10 uH 2R2=2.2 uH

(5) Tolerance.

N=±30%, M=±20%, K=±10%

(6) Packing Style.

C=Carrier Tape, B=Bulk

(7) Characteristic parameter level.

KTDRH74S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH74S-100MCS	10	±20%	49	1.84
KTDRH74S-120MCS	12	±20%	58	1.71
KTDRH74S-150MCS	15	±20%	81	1.47
KTDRH74S-180MCS	18	±20%	91	1.31
KTDRH74S-220MCS	22	±20%	110	1.23
KTDRH74S-270MCS	27	±20%	150	1.12
KTDRH74S-330MCS	33	±20%	170	0.96
KTDRH74S-390MCS	39	±20%	230	0.91
KTDRH74S-470MCS	47	±20%	260	0.88
KTDRH74S-560MCS	56	±20%	350	0.75
KTDRH74S-680MCS	68	±20%	380	0.69
KTDRH74S-820MCS	82	±20%	430	0.61
KTDRH74S-101MCS	100	±20%	610	0.60
KTDRH74S-121MCS	120	±20%	660	0.52
KTDRH74S-151MCS	150	±20%	880	0.46
KTDRH74S-181MCS	180	±20%	980	0.42
KTDRH74S-221MCS	220	±20%	1170	0.36
KTDRH74S-271MCS	270	±20%	1640	0.34
KTDRH74S-331MCS	330	±20%	1860	0.32
KTDRH74S-391MCS	390	±20%	2850	0.29
KTDRH74S-471MCS	470	±20%	3010	0.26
KTDRH74S-561MCS	560	±20%	3620	0.23

① Inductance tested at 100kHz, 0.5 Vrms for Inductance $L < 100\mu\text{H}$, 1kHz, 0.5 Vrms for Inductance $L \geq 100\mu\text{H}$ using an Agilent/HP 4192A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Rated current: the DC current at which the inductance decreases by 35% of its nominal value or at which $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).