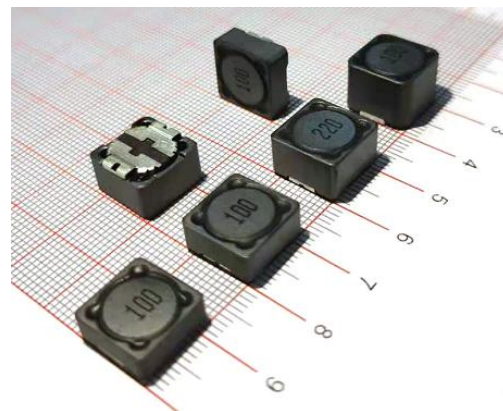


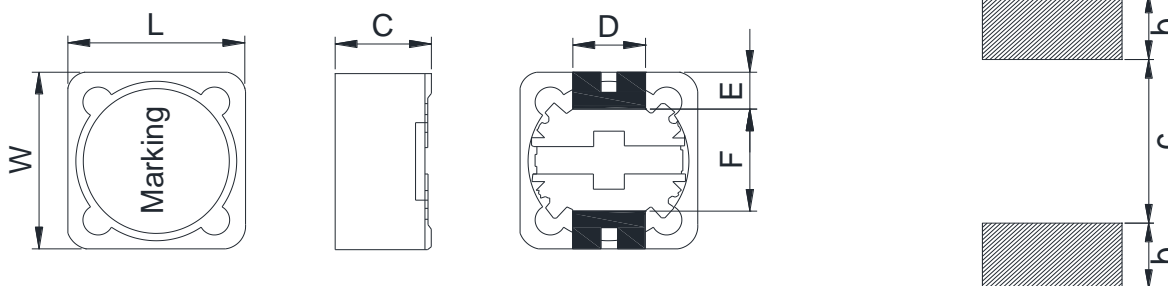
Product outline

- Magnetically shielded types.
- A wide range of product line up allows for various requirements.
- Excellent saturation current handling to be up to 19.9A.
- For DC/DC converter applications.
- Ideally used in thin-screen TV, LCDs, AV equipment, car navigations, Notebook PC and other electronic devices.
- Custom design is also available.
- RoHS compliant.



Dimensions

Recommended land pattern



Unit: mm

Type	L	W	C	D	E	F	a	b	c	Packaging (pcs/reel)
KTDRH124S	12.2	12.2	4.5±0.3	5.0	2.2	7.6	5.4	2.8	7.0	750
KTDRH125S	12.2	12.2	5.7±0.3	5.0	2.2	7.6	5.4	2.8	7.0	500
KTDRH127S	12.2	12.2	7.5±0.3	5.0	2.2	7.6	5.4	2.8	7.0	500
KTDRH129S	12.2	12.2	9.5±0.3	5.0	2.2	7.6	5.4	2.8	7.0	300

Dimensions without tolerance are typical.

Product Identification

KTDRH 127 S - 470 N C S
 (1) (2) (3) (4) (5) (6) (7)

(1) Product Series No.

(2) Dimension symbol.

124=12.2 x 12.2 x 4.5mm (L x W x H)

(3) Internal control code.

(4) Inductance value.

100=10x10⁰ 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.

KTDRH124S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH124S-1R0NCS	1.0	±30%	8	12.00
KTDRH124S-1R6NCS	1.6	±30%	9	8.00
KTDRH124S-3R9NCS	3.9	±30%	18	6.50
KTDRH124S-4R7NCS	4.7	±30%	22	5.70
KTDRH124S-6R8NCS	6.8	±30%	28	4.90
KTDRH124S-100MCS	10	±20%	35	4.50
KTDRH124S-120MCS	12	±20%	38	4.00
KTDRH124S-150MCS	15	±20%	50	3.20
KTDRH124S-180MCS	18	±20%	57	3.10
KTDRH124S-220MCS	22	±20%	66	2.90
KTDRH124S-270MCS	27	±20%	80	2.80
KTDRH124S-300MCS	30	±20%	90	2.75
KTDRH124S-330MCS	33	±20%	97	2.70
KTDRH124S-390MCS	39	±20%	132	2.10
KTDRH124S-470MCS	47	±20%	150	1.90
KTDRH124S-560MCS	56	±20%	190	1.80
KTDRH124S-680MCS	68	±20%	220	1.50
KTDRH124S-820MCS	82	±20%	260	1.30
KTDRH124S-101MCS	100	±20%	308	1.20
KTDRH124S-121MCS	120	±20%	380	1.10
KTDRH124S-151MCS	150	±20%	530	0.95
KTDRH124S-181MCS	180	±20%	620	0.85
KTDRH124S-221MCS	220	±20%	700	0.80
KTDRH124S-271MCS	270	±20%	876	0.60
KTDRH124S-331MCS	330	±20%	990	0.50
KTDRH124S-471MCS	470	±20%	1300	0.40
KTDRH124S-152MCS	1500	±20%	4000	0.29

KTDRH125S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH125S-1R3MCS	1.3	±20%	12	8.00
KTDRH125S-2R1MCS	2.1	±20%	14	7.00
KTDRH125S-2R2MCS	2.2	±20%	14	7.00
KTDRH125S-3R1MCS	3.1	±20%	17	6.00
KTDRH125S-3R9MCS	3.9	±20%	18	5.50
KTDRH125S-4R4MCS	4.4	±20%	20	5.00
KTDRH125S-4R7MCS	4.7	±20%	20	5.00
KTDRH125S-5R8MCS	5.8	±20%	21	4.40
KTDRH125S-6R8MCS	6.8	±20%	22	3.00
KTDRH125S-7R5MCS	7.5	±20%	24	4.20
KTDRH125S-8R2MCS	8.2	±20%	25	4.00
KTDRH125S-100MCS	10	±20%	25	4.00
KTDRH125S-120MCS	12	±20%	27	3.50
KTDRH125S-150MCS	15	±20%	30	3.30
KTDRH125S-180MCS	18	±20%	34	3.00
KTDRH125S-220MCS	22	±20%	42	2.80
KTDRH125S-270MCS	27	±20%	51	2.30
KTDRH125S-330MCS	33	±20%	65	2.10
KTDRH125S-390MCS	39	±20%	68	2.00
KTDRH125S-470MCS	47	±20%	75	1.80
KTDRH125S-560MCS	56	±20%	110	1.70
KTDRH125S-680MCS	68	±20%	120	1.50
KTDRH125S-820MCS	82	±20%	140	1.40
KTDRH125S-101MCS	100	±20%	198	1.30
KTDRH125S-121MCS	120	±20%	220	1.10
KTDRH125S-151MCS	150	±20%	230	1.00
KTDRH125S-181MCS	180	±20%	290	0.90
KTDRH125S-221MCS	220	±20%	400	0.80
KTDRH125S-271MCS	270	±20%	460	0.75
KTDRH125S-331MCS	330	±20%	510	0.68
KTDRH125S-391MCS	390	±20%	690	0.65
KTDRH125S-471MCS	470	±20%	770	0.58
KTDRH125S-561MCS	560	±20%	860	0.54
KTDRH125S-681MCS	680	±20%	1200	0.48
KTDRH125S-821MCS	820	±20%	1340	0.43
KTDRH125S-102MCS	1000	±20%	1900	0.40
KTDRH125S-472MCS	4700	±20%	8280	0.30
KTDRH125S-802MCS	8000	±20%	15000	0.22
KTDRH125S-103MCS	10000	±20%	20000	0.12

KTDRH127S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH127S-1R0NCS	1.0	±30%	7	9.80
KTDRH127S-1R5NCS	1.5	±30%	10	9.00
KTDRH127S-2R2NCS	2.2	±30%	11.5	7.50
KTDRH127S-2R4NCS	2.4	±30%	11.5	8.00
KTDRH127S-2R5NCS	2.5	±30%	11.5	7.50
KTDRH127S-3R3NCS	3.3	±30%	13.5	7.50
KTDRH127S-3R5NCS	3.5	±30%	13.5	7.50
KTDRH127S-4R7NCS	4.7	±30%	15.8	6.80
KTDRH127S-5R6NCS	5.6	±30%	17.6	6.70
KTDRH127S-6R1NCS	6.1	±30%	17.6	6.60
KTDRH127S-6R8NCS	6.8	±30%	20	6.60
KTDRH127S-7R6NCS	7.6	±30%	20	5.90
KTDRH127S-8R2NCS	8.2	±30%	25	5.90
KTDRH127S-100MCS	10	±20%	21.6	5.40
KTDRH127S-120MCS	12	±20%	24.3	4.90
KTDRH127S-150MCS	15	±20%	27	4.50
KTDRH127S-180MCS	18	±20%	39.2	3.90
KTDRH127S-220MCS	22	±20%	43.2	3.60
KTDRH127S-250MCS	25	±20%	45.9	3.40
KTDRH127S-270MCS	27	±20%	45.9	3.40
KTDRH127S-330MCS	33	±20%	64.8	3.20
KTDRH127S-390MCS	39	±20%	72.9	2.75
KTDRH127S-400MCS	40	±20%	79	2.75
KTDRH127S-470MCS	47	±20%	100	2.50
KTDRH127S-500MCS	50	±20%	73	3.00
KTDRH127S-560MCS	56	±20%	110	2.35
KTDRH127S-680MCS	68	±20%	140	2.10
KTDRH127S-820MCS	82	±20%	160	1.95
KTDRH127S-101MCS	100	±20%	220	1.70
KTDRH127S-121MCS	120	±20%	250	1.60
KTDRH127S-151MCS	150	±20%	280	1.42
KTDRH127S-181MCS	180	±20%	350	1.30
KTDRH127S-221MCS	220	±20%	390	1.16
KTDRH127S-271MCS	270	±20%	560	1.06
KTDRH127S-331MCS	330	±20%	640	0.95
KTDRH127S-391MCS	390	±20%	700	0.88
KTDRH127S-471MCS	470	±20%	980	0.79
KTDRH127S-561MCS	560	±20%	1070	0.73
KTDRH127S-681MCS	680	±20%	1460	0.67
KTDRH127S-821MCS	820	±20%	1640	0.60
KTDRH127S-102MCS	1000	±20%	1820	0.55
KTDRH127S-152MCS	1500	±20%	2400	0.50
KTDRH127S-222MCS	2200	±20%	2950	0.30

KTDRH129S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH129S-1R0NCS	1.0	±30%	6	19.90
KTDRH129S-1R5NCS	1.5	±30%	7	13.40
KTDRH129S-1R8NCS	1.8	±30%	7	13.40
KTDRH129S-2R2NCS	2.2	±30%	8	12.16
KTDRH129S-3R3NCS	3.3	±30%	10	12.00
KTDRH129S-4R7NCS	4.7	±30%	11	10.08
KTDRH129S-5R6NCS	5.6	±30%	13	9.30
KTDRH129S-6R8NCS	6.8	±30%	14	8.56
KTDRH129S-7R5NCS	7.5	±30%	17	8.48
KTDRH129S-8R2NCS	8.2	±30%	17	8.48
KTDRH129S-100MCS	10	±20%	18	7.12
KTDRH129S-120MCS	12	±20%	23	7.04
KTDRH129S-150MCS	15	±20%	28	5.84
KTDRH129S-220MCS	22	±20%	41	5.12
KTDRH129S-330MCS	33	±20%	44	4.25
KTDRH129S-470MCS	47	±20%	80	3.60
KTDRH129S-560MCS	56	±20%	91	2.85
KTDRH129S-680MCS	68	±20%	98	2.76
KTDRH129S-820MCS	82	±20%	138	2.62
KTDRH129S-101MCS	100	±20%	140	2.50
KTDRH129S-121MCS	120	±20%	169	2.05
KTDRH129S-151MCS	150	±20%	245	1.80
KTDRH129S-181MCS	180	±20%	270	1.66
KTDRH129S-221MCS	220	±20%	306	1.64
KTDRH129S-331MCS	330	±20%	488	1.28
KTDRH129S-471MCS	470	±20%	599	1.06
KTDRH129S-561MCS	560	±20%	887	1.01
KTDRH129S-681MCS	680	±20%	1003	0.83
KTDRH129S-821MCS	820	±20%	1108	0.81
KTDRH129S-102MCS	1000	±20%	1880	0.70

① Inductance tested at 100kHz, 0.5 Vrms 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 20% of its nominal value or at which $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).