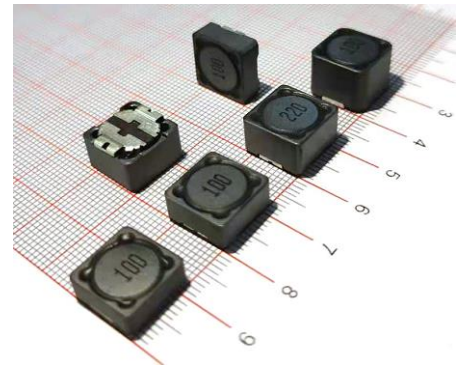


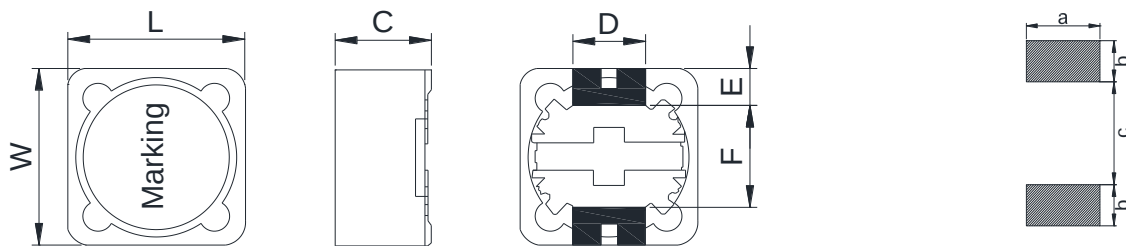
Product Outline

- 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(mm)

Recommended Land Patterns



Type	L	W	C	D	E	F	a	b	c	Packaging (pcs/reel)
KTDRH124S	12.2±0.4	12.2±0.4	4.5±0.3	5.0	2.2	7.6	5.4	2.8	7.0	500
KTDRH125S	12.2±0.4	12.2±0.4	5.7±0.3	5.0	2.2	7.6	5.4	2.8	7.0	500
KTDRH127S	12.2±0.4	12.2±0.4	7.5±0.3	5.0	2.2	7.6	5.4	2.8	7.0	500
KTDRH129S	12.2±0.4	12.2±0.4	9.5±0.3	5.0	2.2	7.6	5.4	2.8	7.0	350

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=10×10⁰ uH=10uH , 2R2=2.2uH, 101=100uH, 102=1000uH
- ⑤ Tolerance: M=±20%, N=±30%, K=±10%
- ⑥ Packing Style: C=Carrier Tape, B=Bulk
- ⑦ Characteristic parameter level.

KTDRH124S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Frequency	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH124S-1R0NCS	1.0	±30%	100kHz/0.5V	8	12.00
KTDRH124S-1R6NCS	1.6	±30%	100kHz/0.5V	9	8.00
KTDRH124S-3R9NCS	3.9	±30%	100kHz/0.5V	18	6.50
KTDRH124S-4R7NCS	4.7	±30%	100kHz/0.5V	22	5.70
KTDRH124S-6R8NCS	6.8	±30%	100kHz/0.5V	28	4.90
KTDRH124S-100MCS	10	±20%	100kHz/0.5V	35	4.50
KTDRH124S-120MCS	12	±20%	100kHz/0.5V	38	4.00
KTDRH124S-150MCS	15	±20%	100kHz/0.5V	50	3.20
KTDRH124S-180MCS	18	±20%	100kHz/0.5V	57	3.10
KTDRH124S-220MCS	22	±20%	100kHz/0.5V	66	2.90
KTDRH124S-270MCS	27	±20%	100kHz/0.5V	80	2.80
KTDRH124S-300MCS	30	±20%	100kHz/0.5V	90	2.75
KTDRH124S-330MCS	33	±20%	100kHz/0.5V	97	2.70
KTDRH124S-390MCS	39	±20%	100kHz/0.5V	132	2.10
KTDRH124S-470MCS	47	±20%	100kHz/0.5V	150	1.90
KTDRH124S-560MCS	56	±20%	100kHz/0.5V	190	1.80
KTDRH124S-680MCS	68	±20%	100kHz/0.5V	220	1.50
KTDRH124S-820MCS	82	±20%	100kHz/0.5V	260	1.30
KTDRH124S-101MCS	100	±20%	1kHz/0.5V	308	1.20
KTDRH124S-121MCS	120	±20%	1kHz/0.5V	380	1.10
KTDRH124S-151MCS	150	±20%	1kHz/0.5V	530	0.95
KTDRH124S-181MCS	180	±20%	1kHz/0.5V	620	0.85
KTDRH124S-221MCS	220	±20%	1kHz/0.5V	700	0.80
KTDRH124S-271MCS	270	±20%	1kHz/0.5V	876	0.60
KTDRH124S-331MCS	330	±20%	1kHz/0.5V	990	0.50
KTDRH124S-471MCS	470	±20%	1kHz/0.5V	1300	0.40
KTDRH124S-152MCS	1500	±20%	1kHz/0.5V	4000	0.29

① Inductance tested 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 ($T_a=20^{\circ}\text{C}$).

KTDRH125S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Frequency	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH125S-1R3MCS	1.3	±20%	100kHz/0.5V	12	8.00
KTDRH125S-2R1MCS	2.1	±20%	100kHz/0.5V	14	7.00
KTDRH125S-2R2MCS	2.2	±20%	100kHz/0.5V	14	7.00
KTDRH125S-3R1MCS	3.1	±20%	100kHz/0.5V	17	6.00
KTDRH125S-3R9MCS	3.9	±20%	100kHz/0.5V	18	5.50
KTDRH125S-4R4MCS	4.4	±20%	100kHz/0.5V	20	5.00
KTDRH125S-4R7MCS	4.7	±20%	100kHz/0.5V	20	5.00
KTDRH125S-5R8MCS	5.8	±20%	100kHz/0.5V	21	4.40
KTDRH125S-6R8MCS	6.8	±20%	100kHz/0.5V	22	3.00
KTDRH125S-7R5MCS	7.5	±20%	100kHz/0.5V	24	4.20
KTDRH125S-8R2MCS	8.2	±20%	100kHz/0.5V	25	4.00
KTDRH125S-100MCS	10	±20%	100kHz/0.5V	25	4.00
KTDRH125S-120MCS	12	±20%	100kHz/0.5V	27	3.50
KTDRH125S-150MCS	15	±20%	100kHz/0.5V	30	3.30
KTDRH125S-180MCS	18	±20%	100kHz/0.5V	34	3.00
KTDRH125S-220MCS	22	±20%	100kHz/0.5V	42	2.80
KTDRH125S-270MCS	27	±20%	100kHz/0.5V	51	2.30
KTDRH125S-330MCS	33	±20%	100kHz/0.5V	65	2.10
KTDRH125S-390MCS	39	±20%	100kHz/0.5V	68	2.00
KTDRH125S-470MCS	47	±20%	100kHz/0.5V	75	1.80
KTDRH125S-560MCS	56	±20%	100kHz/0.5V	110	1.70
KTDRH125S-680MCS	68	±20%	100kHz/0.5V	120	1.50
KTDRH125S-820MCS	82	±20%	100kHz/0.5V	140	1.40
KTDRH125S-101MCS	100	±20%	1kHz/0.5V	198	1.30
KTDRH125S-121MCS	120	±20%	1kHz/0.5V	220	1.10
KTDRH125S-151MCS	150	±20%	1kHz/0.5V	230	1.00
KTDRH125S-181MCS	180	±20%	1kHz/0.5V	290	0.90
KTDRH125S-221MCS	220	±20%	1kHz/0.5V	400	0.80
KTDRH125S-271MCS	270	±20%	1kHz/0.5V	460	0.75
KTDRH125S-331MCS	330	±20%	1kHz/0.5V	510	0.68
KTDRH125S-391MCS	390	±20%	1kHz/0.5V	690	0.65
KTDRH125S-471MCS	470	±20%	1kHz/0.5V	770	0.58
KTDRH125S-561MCS	560	±20%	1kHz/0.5V	860	0.54
KTDRH125S-681MCS	680	±20%	1kHz/0.5V	1200	0.48
KTDRH125S-821MCS	820	±20%	1kHz/0.5V	1340	0.43
KTDRH125S-102MCS	1000	±20%	1kHz/0.5V	1900	0.40
KTDRH125S-472MCS	4700	±20%	1kHz/0.5V	8280	0.30
KTDRH125S-802MCS	8000	±20%	1kHz/0.5V	15000	0.22
KTDRH125S-103MCS	10000	±20%	1kHz/0.5V	20000	0.12

① Inductance tested 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($T_a=20^{\circ}\text{C}$).

KTDRH127S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Frequency	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH127S-1R0NCS	1.0	±30%	100kHz/0.5V	7	9.80
KTDRH127S-1R5NCS	1.5	±30%	100kHz/0.5V	10	9.00
KTDRH127S-2R2NCS	2.2	±30%	100kHz/0.5V	11.5	7.50
KTDRH127S-2R4NCS	2.4	±30%	100kHz/0.5V	11.5	8.00
KTDRH127S-2R5NCS	2.5	±30%	100kHz/0.5V	11.5	7.50
KTDRH127S-3R3NCS	3.3	±30%	100kHz/0.5V	13.5	7.50
KTDRH127S-3R5NCS	3.5	±30%	100kHz/0.5V	13.5	7.50
KTDRH127S-4R7NCS	4.7	±30%	100kHz/0.5V	15.8	6.80
KTDRH127S-5R6NCS	5.6	±30%	100kHz/0.5V	17.6	6.70
KTDRH127S-6R1NCS	6.1	±30%	100kHz/0.5V	17.6	6.60
KTDRH127S-6R8NCS	6.8	±30%	100kHz/0.5V	20	6.60
KTDRH127S-7R6NCS	7.6	±30%	100kHz/0.5V	20	5.90
KTDRH127S-8R2NCS	8.2	±30%	100kHz/0.5V	25	5.90
KTDRH127S-100MCS	10	±20%	100kHz/0.5V	21.6	5.40
KTDRH127S-120MCS	12	±20%	100kHz/0.5V	24.3	4.90
KTDRH127S-150MCS	15	±20%	100kHz/0.5V	27	4.50
KTDRH127S-180MCS	18	±20%	100kHz/0.5V	39.2	3.90
KTDRH127S-220MCS	22	±20%	100kHz/0.5V	43.2	3.60
KTDRH127S-250MCS	25	±20%	100kHz/0.5V	45.9	3.40
KTDRH127S-270MCS	27	±20%	100kHz/0.5V	45.9	3.40
KTDRH127S-330MCS	33	±20%	100kHz/0.5V	64.8	3.20
KTDRH127S-390MCS	39	±20%	100kHz/0.5V	72.9	2.75
KTDRH127S-400MCS	40	±20%	100kHz/0.5V	79	2.75
KTDRH127S-470MCS	47	±20%	100kHz/0.5V	100	2.50
KTDRH127S-500MCS	50	±20%	100kHz/0.5V	73	3.00
KTDRH127S-560MCS	56	±20%	100kHz/0.5V	110	2.35
KTDRH127S-680MCS	68	±20%	100kHz/0.5V	140	2.10
KTDRH127S-820MCS	82	±20%	100kHz/0.5V	160	1.95
KTDRH127S-101MCS	100	±20%	1kHz/0.5V	220	1.70
KTDRH127S-121MCS	120	±20%	1kHz/0.5V	250	1.60
KTDRH127S-151MCS	150	±20%	1kHz/0.5V	280	1.42
KTDRH127S-181MCS	180	±20%	1kHz/0.5V	350	1.30
KTDRH127S-221MCS	220	±20%	1kHz/0.5V	390	1.16
KTDRH127S-271MCS	270	±20%	1kHz/0.5V	560	1.06
KTDRH127S-331MCS	330	±20%	1kHz/0.5V	640	0.95
KTDRH127S-391MCS	390	±20%	1kHz/0.5V	700	0.88
KTDRH127S-471MCS	470	±20%	1kHz/0.5V	980	0.79
KTDRH127S-561MCS	560	±20%	1kHz/0.5V	1070	0.73
KTDRH127S-681MCS	680	±20%	1kHz/0.5V	1460	0.67
KTDRH127S-821MCS	820	±20%	1kHz/0.5V	1640	0.60
KTDRH127S-102MCS	1000	±20%	1kHz/0.5V	1820	0.55
KTDRH127S-152MCS	1500	±20%	1kHz/0.5V	2400	0.50
KTDRH127S-222MCS	2200	±20%	1kHz/0.5V	2950	0.30

All specifications are subject to change without notice.

KTDRH129S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Frequency	DCR max. (mΩ) ②	Rated current (A) ③
KTDRH129S-1R0NCS	1.0	±30%	100kHz/0.5V	6	19.90
KTDRH129S-1R5NCS	1.5	±30%	100kHz/0.5V	7	13.40
KTDRH129S-1R8NCS	1.8	±30%	100kHz/0.5V	7	13.40
KTDRH129S-2R2NCS	2.2	±30%	100kHz/0.5V	8	12.16
KTDRH129S-3R3NCS	3.3	±30%	100kHz/0.5V	10	12.00
KTDRH129S-4R7NCS	4.7	±30%	100kHz/0.5V	11	10.08
KTDRH129S-5R6NCS	5.6	±30%	100kHz/0.5V	13	9.30
KTDRH129S-6R8NCS	6.8	±30%	100kHz/0.5V	14	8.56
KTDRH129S-7R5NCS	7.5	±30%	100kHz/0.5V	17	8.48
KTDRH129S-8R2NCS	8.2	±30%	100kHz/0.5V	17	8.48
KTDRH129S-100MCS	10	±20%	100kHz/0.5V	18	7.12
KTDRH129S-120MCS	12	±20%	100kHz/0.5V	23	7.04
KTDRH129S-150MCS	15	±20%	100kHz/0.5V	28	5.84
KTDRH129S-220MCS	22	±20%	100kHz/0.5V	41	5.12
KTDRH129S-330MCS	33	±20%	100kHz/0.5V	44	4.25
KTDRH129S-470MCS	47	±20%	100kHz/0.5V	80	3.60
KTDRH129S-560MCS	56	±20%	100kHz/0.5V	91	2.85
KTDRH129S-680MCS	68	±20%	100kHz/0.5V	98	2.76
KTDRH129S-820MCS	82	±20%	100kHz/0.5V	138	2.62
KTDRH129S-101MCS	100	±20%	1kHz/0.5V	140	2.50
KTDRH129S-121MCS	120	±20%	1kHz/0.5V	169	2.05
KTDRH129S-151MCS	150	±20%	1kHz/0.5V	245	1.80
KTDRH129S-181MCS	180	±20%	1kHz/0.5V	270	1.66
KTDRH129S-221MCS	220	±20%	1kHz/0.5V	306	1.64
KTDRH129S-331MCS	330	±20%	1kHz/0.5V	488	1.28
KTDRH129S-471MCS	470	±20%	1kHz/0.5V	599	1.06
KTDRH129S-561MCS	560	±20%	1kHz/0.5V	887	1.01
KTDRH129S-681MCS	680	±20%	1kHz/0.5V	1003	0.83
KTDRH129S-821MCS	820	±20%	1kHz/0.5V	1108	0.81
KTDRH129S-102MCS	1000	±20%	1kHz/0.5V	1200	0.75

① Inductance tested 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 ($T_a=20^{\circ}\text{C}$).