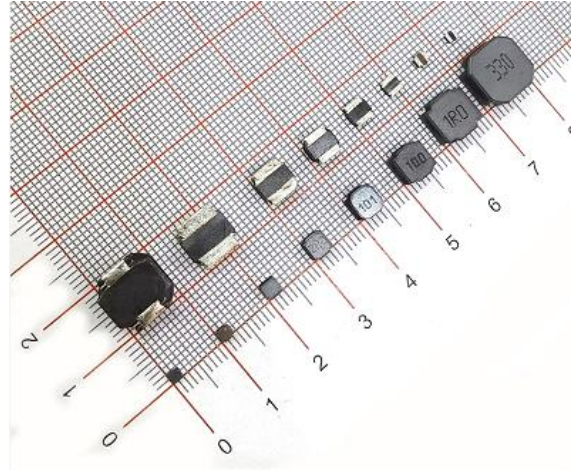


Product Outline

- Magnetic powder epoxy coating reduces buzz noise to a low level.
- A wide range of product line up is available to meet the various requirements.
- For DC/DC converter applications.
- Ideally used in the devices such as smartphone, car navigation, flat-screen TVs, smart screen, notebook PC, LED lighting, various power modules, etc.
- Custom design is also available.
- RoHS compliant.



Dimensions

Recommended land pattern

Fig.1

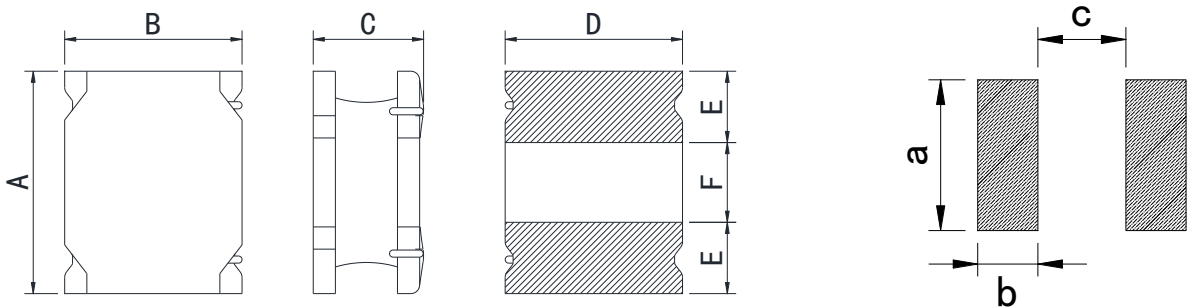


Fig.2

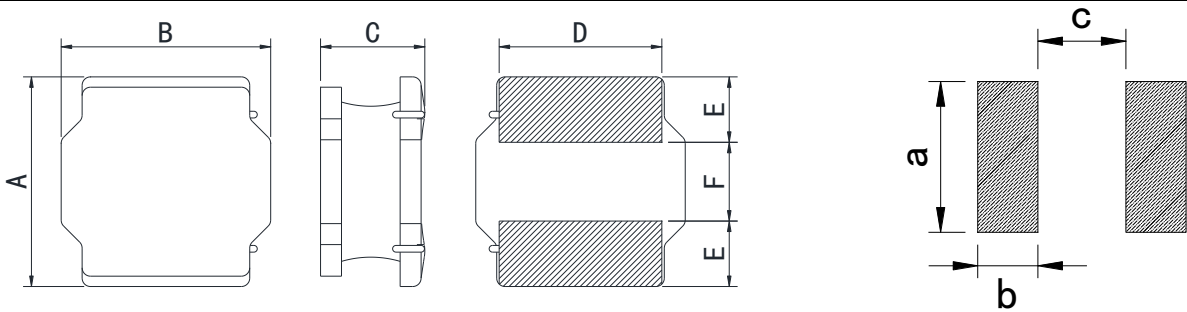


Fig.3

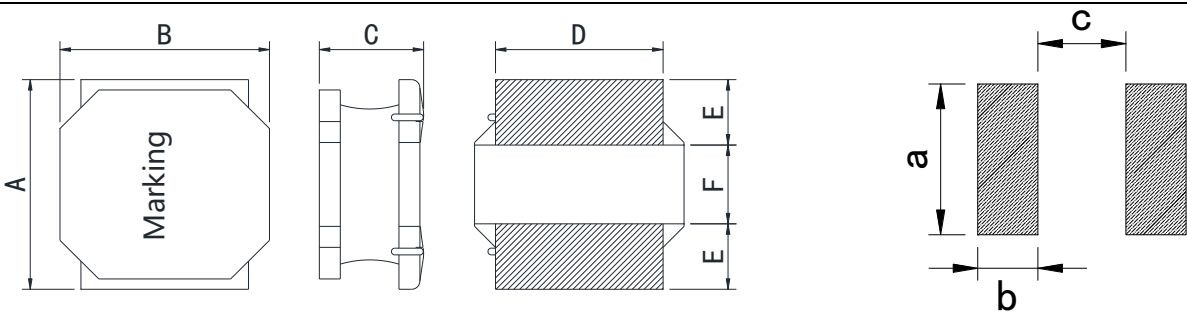
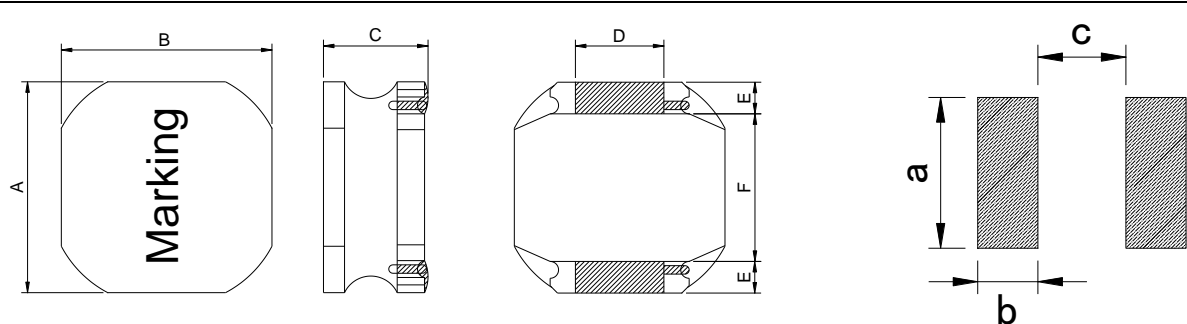


Fig.4



All specifications are subject to change without notice.

KTNR-S Series SMD Power Inductors

Unit: mm

Type	Shape	A	B	C	D	E	F	a	b	c	Packaging (pcs/reel)
KTNR252010S	Fig.1	2.5	2.0	1.0 Max.	2.0	0.8	0.8	2.0	0.85	0.8	2000
KTNR252012S	Fig.1	2.5	2.0	1.2 Max.	2.0	0.8	0.8	2.0	0.85	0.8	2000
KTNR3010S	Fig.2	3.0	3.0	1.0 Max.	2.5	0.75	1.5	2.7	0.8	1.5	2000
KTNR3012S	Fig.2	3.0	3.0	1.2 Max.	2.5	0.75	1.5	2.7	0.8	1.5	2000
KTNR3015S	Fig.2	3.0	3.0	1.5 Max.	2.5	0.75	1.5	2.7	0.8	1.5	2000
KTNR4010S	Fig.2	4.0	4.0	1.0 Max.	3.3	0.95	2.1	3.7	1.1	1.9	5000
KTNR4012S	Fig.2	4.0	4.0	1.2 Max.	3.3	0.95	2.1	3.7	1.1	1.9	4500
KTNR4018S	Fig.2	4.0	4.0	1.8 Max.	3.3	0.95	2.1	3.7	1.1	1.9	3000
KTNR4020S	Fig.2	4.0	4.0	2.0 Max.	3.3	0.95	2.1	3.7	1.1	1.9	3000
KTNR4030S	Fig.2	4.0	4.0	3.0 Max.	3.3	0.95	2.1	3.7	1.1	1.9	3000
KTNR5020S	Fig.3	5.0	5.0	2.0 Max.	4.0	1.25	2.5	4.2	1.4	2.3	2500
KTNR5040S	Fig.3	5.0	5.0	4.0 Max.	4.0	1.25	2.5	4.2	1.4	2.3	1500
KTNR5045S	Fig.3	5.0	5.0	4.5 Max.	4.0	1.30	2.5	4.2	1.4	2.3	1500
KTNR6020S	Fig.2	6.0	6.0	2.0 Max.	4.9	1.55	2.9	5.7	1.7	2.8	2500
KTNR6028S	Fig.2	6.0	6.0	2.8 Max.	4.9	1.55	2.9	5.7	1.7	2.8	2000
KTNR6045S	Fig.2	6.0	6.0	4.5 Max.	4.9	1.55	2.9	5.7	1.7	2.8	1500
KTNR8040S	Fig.2	8.0	8.0	4.2 Max.	6.3	2.0	4.0	7.5	2.2	3.8	1000
KTNR8050S	Fig.2	8.0	8.0	5.0 Max.	6.3	2.0	4.0	7.5	2.2	3.8	1000
KTNR8060S	Fig.2	8.0	8.0	6.0 Max.	6.3	2.0	4.0	7.5	2.2	3.8	1000
KTNR8065S	Fig.3	8.0	8.0	6.5 Max.	6.3	2.0	4.0	7.5	2.2	3.8	1000
KTNR1050S	Fig.4	10.0	10.0	5.0 Max.	4.2	2.9	6.4	5.5	2.0	6.2	800

Dimensions without tolerance are typical.

Product Identification

KTNR 3010 S - 4R7 M C S
 (1) (2) (3) (4) (5) (6) (7)

(1) Product Series No.

(2) Dimension symbol.

3010=3.0 x 1.0mm (L x H)

(3) Internal control code.

(4) Inductance value.

100=10x10⁰ uH=10 uH 4R7=4.7 uH

(5) Tolerance.

M=±20%, Y=±30%, P=±35%

(6) Packing Style.

C=Carrier Taping, B=Bulk.

(7) Characteristic parameter level.

NR252010S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR252010S-R22NCS	0.22	\pm 30%	36	2.70	3.10	3.00	3.50
KTNR252010S-R33NCS	0.33	\pm 30%	48	4.00	4.60	2.40	2.76
KTNR252010S-R47NCS	0.47	\pm 30%	56	2.50	3.35	2.35	2.56
KTNR252010S-R56NCS	0.56	\pm 30%	72	2.90	3.20	2.00	2.18
KTNR252010S-R68NCS	0.68	\pm 30%	74	2.20	2.75	2.00	2.18
KTNR252010S-1R0NCS	1.0	\pm 30%	108	1.85	2.20	1.65	1.80
KTNR252010S-1R5NCS	1.5	\pm 30%	182	1.80	2.10	1.30	1.42
KTNR252010S-2R2NCS	2.2	\pm 30%	209	1.20	1.60	1.20	1.31
KTNR252010S-3R3MCS	3.3	\pm 20%	328	1.05	1.30	0.90	0.98
KTNR252010S-4R7MCS	4.7	\pm 20%	563	0.95	1.15	0.70	0.76
KTNR252010S-5R6MCS	5.6	\pm 20%	563	0.80	0.95	0.73	0.80
KTNR252010S-6R8MCS	6.8	\pm 20%	896	0.78	0.92	0.59	0.64
KTNR252010S-100MCS	10	\pm 20%	1092	0.65	0.78	0.50	0.55
KTNR252010S-150MCS	15	\pm 20%	1508	0.40	0.60	0.50	0.55
KTNR252010S-220MCS	22	\pm 20%	1625	0.40	0.48	0.45	0.50

NR252012S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR252012S-R22NCS	0.22	\pm 30%	47	6.10	6.50	2.20	2.57
KTNR252012S-R33NCS	0.33	\pm 30%	47	4.00	5.00	2.20	2.57
KTNR252012S-R47NCS	0.47	\pm 30%	61	3.82	4.27	2.15	2.34
KTNR252012S-R68NCS	0.68	\pm 30%	74	3.28	3.68	1.95	2.13
KTNR252012S-1R0NCS	1.0	\pm 30%	90	2.59	2.90	1.93	2.10
KTNR252012S-1R2NCS	1.2	\pm 30%	129	2.38	2.67	1.46	1.59
KTNR252012S-1R5MCS	1.5	\pm 20%	147	2.24	2.51	1.40	1.53
KTNR252012S-2R2MCS	2.2	\pm 20%	216	1.85	2.07	1.15	1.25
KTNR252012S-2R7MCS	2.7	\pm 20%	239	1.72	1.92	1.09	1.19
KTNR252012S-3R3MCS	3.3	\pm 20%	264	1.61	1.80	1.04	1.13
KTNR252012S-3R6MCS	3.6	\pm 20%	348	1.46	1.64	0.90	0.98
KTNR252012S-4R3MCS	4.3	\pm 20%	377	1.37	1.53	0.87	0.95
KTNR252012S-4R7MCS	4.7	\pm 20%	377	1.12	1.25	0.84	0.92
KTNR252012S-5R1MCS	5.1	\pm 20%	500	1.23	1.37	0.75	0.82
KTNR252012S-5R6MCS	5.6	\pm 20%	538	1.11	1.25	0.73	0.80
KTNR252012S-6R2MCS	6.2	\pm 20%	542	1.03	1.16	0.73	0.80
KTNR252012S-6R8MCS	6.8	\pm 20%	581	0.98	1.09	0.69	0.75
KTNR252012S-7R5MCS	7.5	\pm 20%	611	0.97	1.09	0.68	0.74
KTNR252012S-8R2MCS	8.2	\pm 20%	658	0.98	1.10	0.65	0.71
KTNR252012S-9R1MCS	9.1	\pm 20%	690	0.91	1.02	0.62	0.68
KTNR252012S-100MCS	10	\pm 20%	690	0.79	0.88	0.62	0.68
KTNR252012S-120MCS	12	\pm 20%	1075	0.78	0.88	0.51	0.56
KTNR252012S-150MCS	15	\pm 20%	1591	0.68	0.77	0.42	0.46
KTNR252012S-220MCS	22	\pm 20%	1976	0.53	0.59	0.38	0.41

All specifications are subject to change without notice.

KTNR3010S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 20%	I sat ③ (A) typ.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR3010SR47NCS	0.47	\pm 30%	44.00	1.44	2.00	2.00	2.30
KTNR3010S1R0NCS	1.0	\pm 30%	85.00	1.40	2.10	1.45	1.80
KTNR3010S1R2NCS	1.2	\pm 30%	85.00	1.25	1.70	1.45	1.80
KTNR3010S1R5NCS	1.5	\pm 30%	104.0	1.27	1.70	1.30	1.60
KTNR3010S2R2NCS	2.2	\pm 30%	143.0	1.15	1.50	1.09	1.40
KTNR3010S2R7MCS	2.7	\pm 20%	169.0	1.00	1.20	1.02	1.40
KTNR3010S3R3NCS	3.3	\pm 30%	189.0	0.97	1.20	0.96	1.20
KTNR3010S3R6MCS	3.6	\pm 20%	215.0	0.95	1.20	0.90	1.10
KTNR3010S4R7MCS	4.7	\pm 20%	293.0	0.75	1.05	0.77	1.10
KTNR3010S5R6MCS	5.6	\pm 20%	322.0	0.58	0.65	0.70	1.05
KTNR3010S6R8MCS	6.8	\pm 20%	397.0	0.55	0.72	0.66	0.96
KTNR3010S8R2MCS	8.2	\pm 20%	520.0	0.55	0.70	0.58	0.70
KTNR3010S100MCS	10	\pm 20%	520.0	0.55	0.75	0.58	0.70
KTNR3010S120MCS	12	\pm 20%	657.0	0.43	0.65	0.52	0.67
KTNR3010S150MCS	15	\pm 20%	793.0	0.42	0.57	0.47	0.57
KTNR3010S220MCS	22	\pm 20%	1209	0.35	0.48	0.38	0.52
KTNR3010S270MCS	27	\pm 20%	1404	0.30	0.45	0.35	0.50
KTNR3010S330MCS	33	\pm 20%	2015	0.29	0.42	0.30	0.55
KTNR3010S390MCS	39	\pm 20%	2275	0.28	0.38	0.28	0.53
KTNR3010S430MCS	43	\pm 20%	2340	0.23	0.36	0.27	0.52
KTNR3010S470MCS	47	\pm 20%	2535	0.22	0.35	0.26	0.52
KTNR3010S510MCS	51	\pm 20%	2860	0.21	0.33	0.25	0.48
KTNR3010S560MCS	56	\pm 20%	3016	0.21	0.28	0.24	0.35

All specifications are subject to change without notice.

KTNR3012S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR3012S-R22NCS	0.22	\pm 30%	22	5.3	6.0	3.0	3.3
KTNR3012S-R47NCS	0.47	\pm 30%	24	2.95	3.39	2.95	3.39
KTNR3012S-R82NCS	0.82	\pm 30%	39	2.05	2.8	2.47	3.0
KTNR3012S-1R0NCS	1.0	\pm 30%	52	1.87	2.8	2.2	2.7
KTNR3012S-1R2NCS	1.2	\pm 30%	59	2.22	2.5	2.01	2.2
KTNR3012S-1R5NCS	1.5	\pm 30%	59	1.62	1.9	2.01	2.2
KTNR3012S-1R8NCS	1.8	\pm 30%	82	1.3	1.9	1.65	1.8
KTNR3012S-2R2NCS	2.2	\pm 30%	98	1.2	1.9	1.55	1.7
KTNR3012S-2R4NCS	2.4	\pm 30%	88	1.15	1.5	1.6	1.7
KTNR3012S-2R7NCS	2.7	\pm 30%	110	1.14	1.5	1.48	1.5
KTNR3012S-3R3MCS	3.3	\pm 20%	130	1.05	1.5	1.36	1.4
KTNR3012S-3R6MCS	3.6	\pm 20%	130	1.05	1.5	1.36	1.4
KTNR3012S-3R9MCS	3.9	\pm 20%	189	1	1.3	1.24	1.3
KTNR3012S-4R7MCS	4.7	\pm 20%	156	0.9	1.0	1.24	1.3
KTNR3012S-5R6MCS	5.6	\pm 20%	226	0.8	1.1	1.13	1.24
KTNR3012S-6R8MCS	6.8	\pm 20%	247	0.75	0.9	0.98	1.1
KTNR3012S-100MCS	10	\pm 20%	345	0.6	0.88	0.83	0.9
KTNR3012S-120MCS	12	\pm 20%	449	0.48	0.67	0.73	0.84
KTNR3012S-150MCS	15	\pm 20%	468	0.45	0.62	0.71	0.77
KTNR3012S-180MCS	18	\pm 20%	709	0.43	0.59	0.58	0.65
KTNR3012S-220MCS	22	\pm 20%	839	0.42	0.52	0.53	0.59
KTNR3012S-270MCS	27	\pm 20%	1131	0.35	0.48	0.47	0.51
KTNR3012S-330MCS	33	\pm 20%	1138	0.36	0.46	0.46	0.5
KTNR3012S-360MCS	36	\pm 20%	1235	0.34	0.44	0.44	0.48
KTNR3012S-390MCS	39	\pm 20%	1729	0.3	0.39	0.37	0.41
KTNR3012S-470MCS	47	\pm 20%	1885	0.27	0.35	0.35	0.4
KTNR3012S-560MCS	56	\pm 20%	1794	0.26	0.33	0.28	0.4
KTNR3012S-680MCS	68	\pm 20%	2171	0.24	0.29	0.33	0.37
KTNR3012S-820MCS	82	\pm 20%	3302	0.17	0.27	0.27	0.31
KTNR3012S-101MCS	100	\pm 20%	3718	0.21	0.23	0.25	0.29

All specifications are subject to change without notice.

KTNR3015S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 20%	I sat ③ (A) max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR3015S-R50NCS	0.5	\pm 30%	39	3.90	4.20	2.60	2.80
KTNR3015S-1R0NCS	1.0	\pm 30%	39	2.32	2.80	2.35	2.50
KTNR3015S-1R2NCS	1.2	\pm 30%	52	2.21	3.10	1.95	2.30
KTNR3015S-1R5NCS	1.5	\pm 30%	65	2.30	2.70	1.70	2.20
KTNR3015S-2R2NCS	2.2	\pm 30%	78	1.60	2.00	1.60	2.00
KTNR3015S-2R7NCS	2.7	\pm 30%	98	1.52	1.90	1.43	1.90
KTNR3015S-3R3MCS	3.3	\pm 20%	104	1.32	1.81	1.36	1.60
KTNR3015S-3R9MCS	3.9	\pm 20%	137	1.20	1.40	1.20	1.50
KTNR3015S-4R7MCS	4.7	\pm 20%	163	1.10	1.40	1.09	1.30
KTNR3015S-6R8MCS	6.8	\pm 20%	260	0.85	1.10	0.85	1.10
KTNR3015S-100MCS	10	\pm 20%	325	0.72	0.92	0.77	0.90
KTNR3015S-120MCS	12	\pm 20%	416	0.70	0.90	0.68	0.89
KTNR3015S-150MCS	15	\pm 20%	455	0.66	0.88	0.65	0.72
KTNR3015S-180MCS	18	\pm 20%	559	0.56	0.72	0.59	0.72
KTNR3015S-220MCS	22	\pm 20%	598	0.52	0.68	0.57	0.69
KTNR3015S-270MCS	27	\pm 20%	949	0.48	0.56	0.45	0.56
KTNR3015S-330MCS	33	\pm 20%	1066	0.44	0.53	0.43	0.51
KTNR3015S-390MCS	39	\pm 20%	1294	0.41	0.55	0.39	0.44
KTNR3015S-430MCS	43	\pm 20%	1378	0.37	0.43	0.37	0.48
KTNR3015S-470MCS	47	\pm 20%	1625	0.35	0.43	0.35	0.44
KTNR3015S-560MCS	56	\pm 20%	1664	0.33	0.42	0.34	0.41
KTNR3015S-620MCS	62	\pm 20%	2093	0.30	0.40	0.30	0.41
KTNR3015S-680MCS	68	\pm 20%	3510	0.28	0.37	0.23	0.31
KTNR3015S-101MCS	100	\pm 20%	4043	0.23	0.25	0.21	0.25
KTNR3015S-151MCS	150	\pm 20%	4940	0.18	0.22	0.19	0.23

KTNR4010S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 20%	I sat ③ (A) max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR4010S-1R0NCS	1.0	\pm 30%	67	2.0	2.3	1.9	2.4
KTNR4010S-1R5NCS	1.5	\pm 30%	84	1.68	2.0	1.7	2.0
KTNR4010S-2R2MCS	2.2	\pm 20%	102	1.2	1.5	1.5	2.0
KTNR4010S-3R3MCS	3.3	\pm 20%	120	1.1	1.4	1.4	1.8
KTNR4010S-4R7MCS	4.7	\pm 20%	168	0.95	1.1	1.2	1.5
KTNR4010S-6R8MCS	6.8	\pm 20%	240	0.8	0.95	1.0	1.2
KTNR4010S-100MCS	10	\pm 20%	360	0.62	0.75	0.75	1.0
KTNR4010S-150MCS	15	\pm 20%	516	0.54	0.61	0.6	0.85
KTNR4010S-220MCS	22	\pm 20%	684	0.45	0.52	0.5	0.75
KTNR4010S-1R0NCS	1.0	\pm 30%	67	2.0	2.3	1.9	2.4
KTNR4010S-1R5NCS	1.5	\pm 30%	84	1.68	2.0	1.7	2.0
KTNR4010S-2R2MCS	2.2	\pm 20%	102	1.2	1.5	1.5	2.0
KTNR4010S-3R3MCS	3.3	\pm 20%	120	1.1	1.4	1.4	1.8
KTNR4010S-4R7MCS	4.7	\pm 20%	168	0.95	1.1	1.2	1.5
KTNR4010S-6R8MCS	6.8	\pm 20%	240	0.8	0.95	1.0	1.2

All specifications are subject to change without notice.

KTNR4012S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR4012S-R47NCS	0.47	\pm 30%	49.00	4.00	5.20	3.30	3.75
KTNR4012S-R82NCS	0.82	\pm 30%	65.00	3.02	3.30	1.65	2.50
KTNR4012S-1R0NCS	1.0	\pm 30%	65.00	2.61	3.20	1.65	2.50
KTNR4012S-1R2NCS	1.2	\pm 30%	85.00	3.00	3.50	1.46	2.20
KTNR4012S-1R5NCS	1.5	\pm 30%	85.00	2.10	2.70	1.46	2.20
KTNR4012S-1R8NCS	1.8	\pm 30%	104.0	2.12	2.60	1.32	1.90
KTNR4012S-2R2NCS	2.2	\pm 30%	104.0	1.76	2.30	1.32	1.90
KTNR4012S-2R7NCS	2.7	\pm 30%	117.0	1.90	2.30	1.25	1.70
KTNR4012S-3R3NCS	3.3	\pm 30%	143.0	1.72	2.10	1.12	1.60
KTNR4012S-3R6NCS	3.6	\pm 30%	143.0	1.20	1.70	1.12	1.60
KTNR4012S-4R3NCS	4.3	\pm 30%	182.0	1.58	1.70	1.00	1.50
KTNR4012S-4R7NCS	4.7	\pm 30%	163.0	1.15	1.80	1.05	1.50
KTNR4012S-5R1NCS	5.1	\pm 30%	201.0	1.55	1.60	0.95	1.50
KTNR4012S-5R6NCS	5.6	\pm 30%	182.0	1.00	1.60	1.00	1.20
KTNR4012S-6R8MCS	6.8	\pm 20%	257.0	0.85	1.40	0.84	1.20
KTNR4012S-100MCS	10	\pm 20%	345.0	0.80	1.10	0.77	1.00
KTNR4012S-120MCS	12	\pm 20%	377.0	0.66	1.00	0.70	0.95
KTNR4012S-150MCS	15	\pm 20%	442.0	0.56	0.80	0.64	0.85
KTNR4012S-180MCS	18	\pm 20%	611.0	0.55	0.75	0.55	0.80
KTNR4012S-220MCS	22	\pm 20%	763.0	0.46	0.70	0.49	0.75
KTNR4012S-270MCS	27	\pm 20%	936.0	0.50	0.70	0.45	0.60
KTNR4012S-330MCS	33	\pm 20%	1053	0.42	0.60	0.42	0.58
KTNR4012S-360MCS	36	\pm 20%	1170	0.40	0.50	0.40	0.56
KTNR4012S-390MCS	39	\pm 20%	1430	0.55	0.66	0.37	0.50
KTNR4012S-470MCS	47	\pm 20%	1430	0.35	0.50	0.37	0.50
KTNR4012S-560MCS	56	\pm 20%	1625	0.33	0.45	0.33	0.46
KTNR4012S-680MCS	68	\pm 20%	2535	0.38	0.45	0.27	0.45
KTNR4012S-820MCS	82	\pm 20%	2782	0.28	0.40	0.26	0.36
KTNR4012S-101MCS	100	\pm 20%	2873	0.25	0.30	0.25	0.35

All specifications are subject to change without notice.

KTNR4018S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 30%	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR4018S-R47NCS	0.47	\pm 30%	18	4.30	5.20	4.00	4.50
KTNR4018S-R68NCS	0.68	\pm 30%	26	4.90	5.60	3.30	3.80
KTNR4018S-1R0NCS	1.0	\pm 30%	33	4.80	5.20	2.00	3.30
KTNR4018S-1R5NCS	1.5	\pm 30%	39	3.35	4.00	1.80	3.20
KTNR4018S-1R8NCS	1.8	\pm 30%	44	3.00	3.40	2.00	2.80
KTNR4018S-2R2MCS	2.2	\pm 20%	59	2.70	3.20	1.65	2.60
KTNR4018S-3R3MCS	3.3	\pm 20%	91	2.45	2.90	1.23	2.10
KTNR4018S-4R7MCS	4.7	\pm 20%	117	1.70	2.20	1.20	1.80
KTNR4018S-6R8MCS	6.8	\pm 20%	143	1.45	2.00	1.06	1.50
KTNR4018S-100MCS	10	\pm 20%	234	1.30	1.60	0.84	1.20
KTNR4018S-150MCS	15	\pm 20%	325	0.94	1.10	0.65	1.00
KTNR4018S-220MCS	22	\pm 20%	468	0.80	0.88	0.59	0.85
KTNR4018S-330MCS	33	\pm 20%	689	0.56	0.75	0.49	0.72
KTNR4018S-470MCS	47	\pm 20%	845	0.57	0.70	0.42	0.65
KTNR4018S-680MCS	68	\pm 20%	1300	0.47	0.51	0.32	0.52
KTNR4018S-101MCS	100	\pm 20%	2275	0.40	0.44	0.25	0.41
KTNR4018S-680MCS	68	\pm 20%	1300	0.47	0.51	0.32	0.52
KTNR4018S-151MCS	150	\pm 20%	3250	0.31	0.34	0.22	0.36
KTNR4018S-221MCS	220	\pm 20%	5200	0.27	0.30	0.17	0.27

All specifications are subject to change without notice.

KTNR4020S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 20%	I sat ③ (A) typ.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR4020S-R24MCS	0.24	\pm 20%	14	10.5	12.5	4.50	5.20
KTNR4020S-R33NCS	0.33	\pm 30%	16	7.50	8.50	3.30	4.90
KTNR4020S-R47NCS	0.47	\pm 30%	29	7.00	7.50	3.30	3.70
KTNR4020S-R68NCS	0.68	\pm 30%	36	6.40	6.60	2.80	3.30
KTNR4020S-1R0NCS	1.0	\pm 30%	38	4.78	5.20	2.15	3.20
KTNR4020S-1R2NCS	1.2	\pm 30%	38	5.10	5.60	2.15	3.20
KTNR4020S-1R5NCS	1.5	\pm 30%	46	4.45	4.90	1.98	3.00
KTNR4020S-2R2MCS	2.2	\pm 20%	52	3.40	3.70	1.85	2.80
KTNR4020S-3R3MCS	3.3	\pm 20%	91	3.20	3.50	1.40	2.50
KTNR4020S-3R6MCS	3.6	\pm 20%	72	2.80	3.00	1.54	2.50
KTNR4020S-4R7MCS	4.7	\pm 20%	98	2.35	2.50	1.34	2.00
KTNR4020S-5R1MCS	5.1	\pm 20%	111	2.30	2.50	1.27	1.80
KTNR4020S-5R6MCS	5.6	\pm 20%	117	2.20	2.40	1.22	1.80
KTNR4020S-6R2MCS	6.2	\pm 20%	150	2.15	2.30	1.08	1.60
KTNR4020S-6R8MCS	6.8	\pm 20%	163	2.20	2.40	1.04	1.60
KTNR4020S-7R5MCS	7.5	\pm 20%	150	1.85	2.00	1.08	1.50
KTNR4020S-8R2MCS	8.2	\pm 20%	163	1.75	1.90	1.04	1.40
KTNR4020S-100MCS	10	\pm 20%	215	1.60	1.70	0.90	1.20
KTNR4020S-120MCS	12	\pm 20%	228	1.50	1.60	0.88	1.20
KTNR4020S-150MCS	15	\pm 20%	299	1.35	1.50	0.77	1.10
KTNR4020S-220MCS	22	\pm 20%	455	1.05	1.10	0.62	0.87
KTNR4020S-270MCS	27	\pm 20%	709	1.02	1.10	0.50	0.70
KTNR4020S-330MCS	33	\pm 20%	715	0.85	0.93	0.49	0.68
KTNR4020S-390MCS	39	\pm 20%	845	0.82	0.90	0.46	0.64
KTNR4020S-430MCS	43	\pm 20%	858	0.77	0.85	0.45	0.63
KTNR4020S-470MCS	47	\pm 20%	923	0.74	0.81	0.44	0.61
KTNR4020S-510MCS	51	\pm 20%	975	0.70	0.77	0.42	0.59
KTNR4020S-560MCS	56	\pm 20%	1040	0.66	0.72	0.41	0.57
KTNR4020S-620MCS	62	\pm 20%	1170	0.65	0.71	0.39	0.52
KTNR4020S-680MCS	68	\pm 20%	1380	0.61	0.67	0.36	0.50
KTNR4020S-750MCS	75	\pm 20%	1510	0.70	0.77	0.35	0.49
KTNR4020S-820MCS	82	\pm 20%	1520	0.50	0.55	0.34	0.47
KTNR4020S-101MCS	100	\pm 20%	2020	0.48	0.53	0.31	0.43

All specifications are subject to change without notice.

KTNR4026S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 20%	I sat ③ (A) typ.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR4026S-1R0NCS	1.0	\pm 30%	31	3.3	3.8	3.0	3.3
KTNR4026S-1R2NCS	1.2	\pm 30%	39	3.1	3.4	2.3	3.3
KTNR4026S-1R5NCS	1.5	\pm 30%	39	2.4	2.9	2.3	3.1
KTNR4026S-2R2MCS	2.2	\pm 20%	52	2.1	2.4	2.0	3.8
KTNR4026S-3R3MCS	3.3	\pm 20%	65	1.8	2.0	1.7	2.5
KTNR4026S-4R7MCS	4.7	\pm 20%	72	1.45	1.7	1.6	2.3
KTNR4026S-6R8MCS	6.8	\pm 20%	85	1.3	1.5	1.5	2.0
KTNR4026S-100MCS	10	\pm 20%	110	1.0	1.2	1.3	1.9
KTNR4026S-150MCS	15	\pm 20%	143	0.9	1.0	1.1	1.5
KTNR4026S-220MCS	22	\pm 20%	214	0.6	0.8	0.9	1.4
KTNR4026S-330MCS	33	\pm 20%	351	0.55	0.65	0.7	1.0
KTNR4026S-470MCS	47	\pm 20%	390	0.4	0.55	0.65	0.9
KTNR4026S-331MCS	330	\pm 20%	3600	0.15	0.17	0.25	0.29

All specifications are subject to change without notice.

KTNR4030S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR4030S-R47NCS	0.47	\pm 30%	10	7.80	9.80	5.20	5.90
KTNR4030S-R56NCS	0.56	\pm 30%	11	9.00	10.40	5.20	6.00
KTNR4030S-R68NCS	0.68	\pm 30%	13	6.80	8.00	4.56	5.10
KTNR4030S-R91NCS	0.91	\pm 30%	17	6.25	6.80	4.15	4.70
KTNR4030S-1R0NCS	1.0	\pm 30%	18	5.26	5.70	4.15	4.70
KTNR4030S-1R2NCS	1.2	\pm 30%	20	5.80	6.30	3.82	4.20
KTNR4030S-1R5NCS	1.5	\pm 30%	26	4.84	5.30	3.34	3.60
KTNR4030S-1R8NCS	1.8	\pm 30%	33	5.40	5.80	3.20	3.30
KTNR4030S-2R2NCS	2.2	\pm 30%	39	4.90	5.80	2.95	3.20
KTNR4030S-3R3MCS	3.3	\pm 20%	52	3.30	3.60	2.40	2.60
KTNR4030S-3R6MCS	3.6	\pm 20%	52	3.00	3.50	2.40	2.60
KTNR4030S-3R9MCS	3.9	\pm 20%	74	3.00	3.30	2.10	2.30
KTNR4030S-4R3MCS	4.3	\pm 20%	7.2	2.95	3.20	2.10	2.30
KTNR4030S-4R7MCS	4.7	\pm 20%	78	2.90	3.20	2.00	2.30
KTNR4030S-5R6MCS	5.6	\pm 20%	85	2.60	2.80	1.95	2.10
KTNR4030S-6R2MCS	6.2	\pm 20%	117	3.00	3.45	1.60	1.70
KTNR4030S-6R8MCS	6.8	\pm 20%	117	2.75	3.00	1.60	1.70
KTNR4030S-7R5MCS	7.5	\pm 20%	110	2.20	2.40	1.65	1.80
KTNR4030S-8R2MCS	8.2	\pm 20%	117	2.10	2.30	1.60	1.70
KTNR4030S-100MCS	10	\pm 20%	130	1.95	2.40	1.50	1.60
KTNR4030S-120MCS	12	\pm 20%	175	1.70	1.80	1.30	1.40
KTNR4030S-150MCS	15	\pm 20%	247	1.65	1.80	1.11	1.20
KTNR4030S-180MCS	18	\pm 20%	260	1.40	1.50	1.10	1.20
KTNR4030S-220MCS	22	\pm 20%	292	1.30	1.40	1.00	1.20
KTNR4030S-270MCS	27	\pm 20%	338	1.15	1.35	0.90	1.05
KTNR4030S-330MCS	33	\pm 20%	429	1.10	1.20	0.84	0.92
KTNR4030S-360MCS	36	\pm 20%	436	1.05	1.10	0.83	0.91
KTNR4030S-390MCS	39	\pm 20%	566	1.03	1.10	0.73	0.80
KTNR4030S-470MCS	47	\pm 20%	579	0.95	1.00	0.72	0.80
KTNR4030S-510MCS	51	\pm 20%	611	0.90	1.13	0.70	0.80
KTNR4030S-560MCS	56	\pm 20%	722	0.85	0.94	0.65	0.71
KTNR4030S-620MCS	62	\pm 20%	761	0.80	0.99	0.63	0.70
KTNR4030S-680MCS	68	\pm 20%	1128	0.72	0.80	0.52	0.57
KTNR4030S-750MCS	75	\pm 20%	1326	0.65	0.71	0.41	0.57
KTNR4030S-820MCS	82	\pm 20%	1378	0.60	0.73	0.39	0.52
KTNR4030S-910MCS	91	\pm 20%	1430	0.55	0.60	0.36	0.50
KTNR4030S-101MCS	100	\pm 20%	1495	0.50	0.55	0.35	0.49
KTNR4030S-121MCS	120	\pm 20%	1755	0.30	0.35	0.34	0.47
KTNR4030S-151MCS	150	\pm 20%	2340	0.50	0.55	0.30	0.35
KTNR4030S-221MCS	220	\pm 20%	3250	0.40	0.50	0.35	0.40
KTNR4030S-331MCS	330	\pm 20%	5200	0.30	0.40	0.25	0.26
KTNR4030S-471KCS	470	\pm 10%	9360	0.30	0.35	0.20	0.23
KTNR4030S-501MCS	500	\pm 20%	9027	0.28	0.30	0.15	0.20
KTNR4030S-681MCS	680	\pm 20%	9854	0.19	0.20	0.14	0.18

All specifications are subject to change without notice.

KTNR5012S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② ($m\Omega$) $\pm 20\%$	I sat ③ (A) typ.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR5012S-R22NCS	0.22	$\pm 30\%$	34	8.1	9.3	3.0	3.3
KTNR5012S-R47NCS	0.47	$\pm 30\%$	46	6.0	7.0	2.8	3.3
KTNR5012S-R68NCS	0.68	$\pm 30\%$	57	3.3	3.8	2.4	2.8
KTNR5012S-1R0NCS	1.0	$\pm 30\%$	68	4.4	4.7	2.0	2.4
KTNR5012S-1R2NCS	1.2	$\pm 30\%$	68	2.45	3.4	2.0	2.4
KTNR5012S-1R5NCS	1.5	$\pm 30\%$	86	3.7	3.8	1.9	2.2
KTNR5012S-2R2NCS	2.2	$\pm 30\%$	108	3.1	3.2	1.7	2.0
KTNR5012S-3R3NCS	3.3	$\pm 30\%$	151	2.4	2.6	1.4	1.7
KTNR5012S-4R7NCS	4.7	$\pm 30\%$	197	2.2	2.3	1.3	1.5
KTNR5012S-6R8MCS	6.8	$\pm 20\%$	294	1.7	1.9	1.0	1.2
KTNR5012S-100MCS	10	$\pm 20\%$	413	1.4	1.5	0.85	1.0
KTNR5012S-150MCS	15	$\pm 20\%$	523	1.2	1.3	0.8	0.92
KTNR5012S-220MCS	22	$\pm 20\%$	858	0.88	0.98	0.6	0.68
KTNR5012S-101MCS	100	$\pm 20\%$	3536	0.38	0.47	0.33	0.38

KTNR5020S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② ($m\Omega$) $\pm 20\%$	I sat ③ (A) typ.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR5020S-R22NCS	0.22	$\pm 30\%$	11	9.00	12.00	5.30	6.00
KTNR5020S-R24NCS	0.24	$\pm 30\%$	11	8.00	10.00	5.30	6.00
KTNR5020S-R47NCS	0.47	$\pm 30\%$	17	6.15	6.70	4.60	5.00
KTNR5020S-R56NCS	0.56	$\pm 30\%$	22	8.50	9.60	3.80	4.20
KTNR5020S-R68NCS	0.68	$\pm 30\%$	22	5.50	6.00	4.00	4.40
KTNR5020S-R75NCS	0.75	$\pm 30\%$	22	5.50	6.00	4.00	4.40
KTNR5020S-1R0NCS	1.0	$\pm 30\%$	26	4.10	5.00	3.80	4.10
KTNR5020S-1R2NCS	1.2	$\pm 30\%$	29	4.50	4.90	3.55	3.90
KTNR5020S-1R5NCS	1.5	$\pm 30\%$	34	4.10	4.50	3.20	3.50
KTNR5020S-2R2NCS	2.2	$\pm 30\%$	42	3.20	4.00	2.90	3.10
KTNR5020S-2R7NCS	2.7	$\pm 30\%$	49	2.90	3.50	2.70	2.90
KTNR5020S-3R0NCS	3.0	$\pm 30\%$	49	2.55	2.80	2.70	2.90
KTNR5020S-3R3NCS	3.3	$\pm 30\%$	56	2.55	3.00	2.50	2.70
KTNR5020S-3R6NCS	3.6	$\pm 30\%$	56	2.80	3.00	2.50	2.70
KTNR5020S-3R9NCS	3.9	$\pm 30\%$	56	2.30	2.80	2.50	2.70
KTNR5020S-4R3MCS	4.3	$\pm 20\%$	74	2.50	3.00	2.20	2.40
KTNR5020S-4R7MCS	4.7	$\pm 20\%$	74	2.50	2.70	2.20	2.40
KTNR5020S-5R1MCS	5.1	$\pm 20\%$	83	2.25	2.60	2.05	2.20
KTNR5020S-5R6MCS	5.6	$\pm 20\%$	83	2.30	2.50	2.05	2.20
KTNR5020S-6R8MCS	6.8	$\pm 20\%$	108	2.05	2.20	1.80	1.90
KTNR5020S-7R5MCS	7.5	$\pm 20\%$	117	1.85	2.00	1.75	1.90
KTNR5020S-8R2MCS	8.2	$\pm 20\%$	127	1.85	2.00	1.65	1.80
KTNR5020S-9R1MCS	9.1	$\pm 20\%$	143	1.70	1.80	1.55	1.70
KTNR5020S-100MCS	10	$\pm 20\%$	143	1.70	1.80	1.55	1.70
KTNR5020S-120MCS	12	$\pm 20\%$	182	1.50	1.60	1.40	1.50
KTNR5020S-150MCS	15	$\pm 20\%$	215	1.35	1.40	1.25	1.30
KTNR5020S-180MCS	18	$\pm 20\%$	260	1.25	1.30	1.15	1.20
KTNR5020S-220MCS	22	$\pm 20\%$	294	1.15	1.20	1.10	1.20
KTNR5020S-330MCS	33	$\pm 20\%$	507	0.92	1.00	0.90	0.99
KTNR5020S-470MCS	47	$\pm 20\%$	680	0.77	0.84	0.77	0.84
KTNR5020S-560MCS	56	$\pm 20\%$	819	0.77	0.84	0.70	0.77
KTNR5020S-680MCS	68	$\pm 20\%$	962	0.65	0.70	0.64	0.70
KTNR5020S-820MCS	82	$\pm 20\%$	1158	0.65	0.75	0.50	0.60
KTNR5020S-101MCS	100	$\pm 20\%$	1430	0.53	0.58	0.53	0.58
KTNR5020S-121MCS	120	$\pm 20\%$	1755	0.42	0.53	0.40	0.50

All specifications are subject to change without notice.

KTNR5040S Electrical Characteristics

Part Number	Inductance ① (uH)	Inductance tolerance	DCR ② (mΩ) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR5040S-R22NCS	0.22	±30%	8	18.00	20.00	6.50	7.50
KTNR5040S-R24NCS	0.24	±30%	8	15.70	18.00	6.40	7.40
KTNR5040S-R47NCS	0.47	±30%	9	10.00	11.50	6.60	7.60
KTNR5040S-1R0NCS	1.0	±30%	16	7.35	8.20	4.90	5.10
KTNR5040S-1R5NCS	1.5	±30%	20	6.30	7.30	4.30	4.80
KTNR5040S-2R2NCS	2.2	±30%	25	4.90	5.60	3.80	4.30
KTNR5040S-2R7NCS	2.7	±30%	29	4.30	5.10	3.60	4.10
KTNR5040S-3R0NCS	3.0	±30%	29	4.15	4.80	3.60	4.20
KTNR5040S-3R3NCS	3.3	±30%	31	3.95	4.60	3.40	3.90
KTNR5040S-4R7MCS	4.7	±20%	39	3.50	3.90	3.00	3.30
KTNR5040S-5R6MCS	5.6	±20%	46	3.00	4.10	2.80	3.10
KTNR5040S-6R8MCS	6.8	±20%	56	2.90	3.50	2.50	2.80
KTNR5040S-8R2MCS	8.2	±20%	62	2.70	3.00	2.30	2.60
KTNR5040S-100MCS	10	±20%	83	2.35	2.90	2.10	2.40
KTNR5040S-120MCS	12	±20%	100	2.20	2.50	2.00	2.10
KTNR5040S-150MCS	15	±20%	112	2.00	2.30	2.00	2.10
KTNR5040S-180MCS	18	±20%	155	1.70	2.00	1.45	1.65
KTNR5040S-220MCS	22	±20%	168	1.60	1.90	1.50	1.60
KTNR5040S-270MCS	27	±20%	244	1.52	1.75	1.10	1.25
KTNR5040S-330MCS	33	±20%	244	1.30	1.50	1.20	1.40
KTNR5040S-470MCS	47	±20%	354	1.10	1.30	1.00	1.10
KTNR5040S-510MCS	51	±20%	494	1.00	1.20	1.00	1.10
KTNR5040S-560MCS	56	±20%	494	1.05	1.20	0.80	0.90
KTNR5040S-680MCS	68	±20%	520	0.90	1.10	0.80	0.90
KTNR5040S-750MCS	75	±20%	585	0.85	0.95	0.72	0.80
KTNR5040S-101MCS	100	±20%	728	0.75	0.90	0.70	0.80
KTNR5040S-151MCS	150	±20%	975	0.65	0.67	0.60	0.70
KTNR5040S-221MCS	220	±20%	1820	0.48	0.55	0.40	0.50
KTNR5040S-301MCS	300	±20%	2600	0.50	0.58	0.35	0.40
KTNR5040S-331MCS	330	±20%	2730	0.42	0.47	0.40	0.50
KTNR5040S-471MCS	470	±20%	3900	0.37	0.43	0.35	0.40
KTNR5040S-561MCS	560	±20%	4914	0.31	0.36	0.31	0.35
KTNR5040S-681MCS	680	±20%	5070	0.30	0.35	0.25	0.30
KTNR5040S-102MCS	1000	±20%	7800	0.21	0.26	0.20	0.23
KTNR5040S-332MCS	3300	±20%	25200	0.14	0.15	0.10	0.12
KTNR5040S-102MCS	1000	±20%	7800	0.21	0.25	0.20	0.23
KTNR5040S-152MCS	1500	±20%	10582	0.20	0.23	0.19	0.22
KTNR5040S-202MCS	2000	±20%	14760	0.17	0.20	0.14	0.16
KTNR5040S-332MCS	3300	±20%	25200	0.140	0.150	0.100	0.120
KTNR5040S-392MCS	3900	±20%	30550	0.125	0.150	0.100	0.115
KTNR5040S-472MCS	4700	±20%	45500	0.110	0.130	0.080	0.100
KTNR5040S-502MCS	5000	±20%	43160	0.110	0.130	0.085	0.098
KTNR5040S-562MCS	5600	±20%	50700	0.105	0.120	0.080	0.092
KTNR5040S-682MCS	6800	±20%	55900	0.090	0.110	0.075	0.086
KTNR5040S-822MCS	8200	±20%	55900	0.070	0.085	0.075	0.086
KTNR5040S-103MCS	10000	±20%	58500	0.065	0.075	0.075	0.086

All specifications are subject to change without notice.

KTNR5045S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR5045S1R5MCS	1.5	$\pm 20\%$	22.00	7.40	8.50	5.20	5.90
KTNR5045S2R2MCS	2.2	$\pm 20\%$	29.00	6.40	7.20	4.70	5.40
KTNR5045S3R3MCS	3.3	$\pm 20\%$	35.00	6.40	7.20	4.20	4.85
KTNR5045S3R6MCS	3.6	$\pm 20\%$	30.00	5.15	5.90	4.55	5.25
KTNR5045S4R7MCS	4.7	$\pm 20\%$	47.00	5.00	5.60	3.20	3.70
KTNR5045S6R8MCS	6.8	$\pm 20\%$	56.00	3.78	4.35	2.93	3.38
KTNR5045S100MCS	10	$\pm 20\%$	79.00	3.20	3.70	2.50	2.90
KTNR5045S220MCS	22	$\pm 20\%$	163.0	2.00	2.35	1.55	1.80
KTNR5045S330MCS	33	$\pm 20\%$	256.0	1.63	1.88	1.13	1.30

KTNR6010S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR6010S-1R5NCS	1.50	$\pm 30\%$	11.7	2.16	2.4	1.72	1.9
KTNR6010S-2R2NCS	2.2	$\pm 30\%$	143	1.70	1.9	1.55	1.7
KTNR6010S-3R3NCS	3.3	$\pm 30\%$	175	1.45	1.6	1.35	1.5
KTNR6010S-4R7NCS	4.7	$\pm 20\%$	214	1.18	1.3	1.26	1.4
KTNR6010S-6R8NCS	6.8	$\pm 20\%$	286	1.1	1.2	1.1	1.2
KTNR6010S-100MCS	10	$\pm 30\%$	351	0.9	1.0	1.0	1.1
KTNR6010S-220MCS	22	$\pm 30\%$	754	0.5	0.65	0.64	0.7

KTNR6012S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) max.	I sat ③ (A) typ.	I rms ④ (A) max.	I rms ④ (A) typ.
KTNR6012S-1R0NCS	1.00	$\pm 30\%$	55	3.12	3.52	2.09	2.3
KTNR6012S-1R5NCS	1.50	$\pm 30\%$	75	2.42	2.73	1.82	2.0
KTNR6012S-2R5NCS	2.5	$\pm 30\%$	90	1.86	2.1	1.63	1.8
KTNR6012S-3R3NCS	3.3	$\pm 30\%$	105	1.59	1.8	1.54	1.7
KTNR6012S-4R7NCS	4.7	$\pm 30\%$	125	1.42	1.6	1.41	1.55
KTNR6012S-5R3NCS	5.3	$\pm 30\%$	125	1.33	1.5	1.41	1.55
KTNR6012S-6R8NCS	6.8	$\pm 30\%$	165	1.15	1.3	1.23	1.35
KTNR6012S-100MCS	10	$\pm 20\%$	200	0.89	1.0	1.09	1.2
KTNR6012S-150MCS	15	$\pm 20\%$	295	1.59	1.8	0.73	0.8
KTNR6012S-220MCS	22	$\pm 20\%$	465	0.67	0.76	0.59	0.65
KTNR6012S-330MCS	33	$\pm 20\%$	580	0.52	0.59	0.50	0.55
KTNR6012S-470MCS	47	$\pm 20\%$	810	0.46	0.52	0.42	0.46
KTNR6012S-680MCS	68	$\pm 20\%$	1160	0.39	0.44	0.37	0.41
KTNR6012S-101MCS	100	$\pm 20\%$	1670	0.31	0.35	0.29	0.32

KTNR6020S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR6020S-1R5NCS	1.5	±30%	29	4.25	5.10	3.20	4.00
KTNR6020S-1R8NCS	1.8	±30%	36	4.85	5.80	2.75	3.50
KTNR6020S-2R0NCS	2.0	±30%	46	4.10	4.90	2.60	3.30
KTNR6020S-2R2NCS	2.2	±30%	36	3.75	4.50	2.75	3.50
KTNR6020S-2R7NCS	2.7	±30%	46	3.90	4.60	2.60	3.30
KTNR6020S-3R3NCS	3.3	±30%	46	3.15	3.70	2.60	3.30
KTNR6020S-3R9NCS	3.9	±30%	64	3.25	3.90	2.10	2.60
KTNR6020S-4R3NCS	4.3	±30%	64	2.70	3.20	2.10	2.60
KTNR6020S-4R7NCS	4.7	±30%	75	3.00	3.60	2.00	2.50
KTNR6020S-5R6NCS	5.6	±30%	75	2.40	2.90	1.90	2.40
KTNR6020S-6R2NCS	6.2	±30%	103	2.30	2.70	1.80	2.30
KTNR6020S-6R8NCS	6.8	±30%	103	2.20	2.60	1.80	2.30
KTNR6020S-8R2NCS	8.2	±30%	137	2.10	2.50	1.40	1.80
KTNR6020S-100MCS	10	±20%	137	1.75	2.10	1.40	1.80
KTNR6020S-120MCS	12	±20%	156	1.45	1.70	1.30	1.60
KTNR6020S-150MCS	15	±20%	189	1.20	1.40	1.20	1.50
KTNR6020S-180MCS	18	±20%	234	1.20	1.40	1.08	1.40
KTNR6020S-220MCS	22	±20%	256	1.05	1.20	1.00	1.30
KTNR6020S-330MCS	33	±20%	390	0.95	1.10	0.84	1.05
KTNR6020S-470MCS	47	±20%	559	0.70	0.90	0.80	0.90
KTNR6020S-680MCS	68	±20%	820	0.50	0.60	0.75	0.86
KTNR6020S-101MCS	100	±20%	1200	0.64	0.84	0.50	0.58
KTNR6020S-151MCS	150	±20%	2080	0.50	0.60	0.45	0.52
KTNR6020S-221MCS	220	±20%	3461	0.45	0.55	0.33	0.38
KTNR6020S-331MCS	330	±20%	3419	0.27	0.33	0.33	0.39

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KTNR6028S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR6028S-R82NCS	0.82	\pm 30%	16	6.50	9.00	5.20	6.00
KTNR6028S-1R0NCS	1.0	\pm 30%	13	5.75	7.00	5.20	5.70
KTNR6028S-1R2NCS	1.2	\pm 30%	17	6.40	7.50	4.58	5.00
KTNR6028S-1R5NCS	1.5	\pm 30%	17	6.00	6.60	4.58	5.00
KTNR6028S-2R2NCS	2.2	\pm 30%	26	5.10	5.60	3.75	4.10
KTNR6028S-2R7NCS	2.7	\pm 30%	26	3.80	4.10	3.75	4.10
KTNR6028S-3R3NCS	3.3	\pm 30%	33	4.15	4.50	3.48	3.80
KTNR6028S-4R7NCS	4.7	\pm 30%	39	3.00	3.30	3.08	3.40
KTNR6028S-5R1NCS	5.1	\pm 30%	56	3.20	3.50	2.60	2.80
KTNR6028S-6R2MCS	6.2	\pm 20%	61	3.05	3.30	2.40	2.60
KTNR6028S-6R8MCS	6.8	\pm 20%	61	2.60	3.00	2.40	2.60
KTNR6028S-8R2MCS	8.2	\pm 20%	72	2.30	2.50	2.25	2.50
KTNR6028S-9R1MCS	9.1	\pm 20%	96	2.55	2.80	2.15	2.40
KTNR6028S-100MCS	10	\pm 20%	94	2.04	2.50	1.95	2.40
KTNR6028S-120MCS	12	\pm 20%	104	1.80	2.00	1.85	2.00
KTNR6028S-150MCS	15	\pm 20%	163	1.75	1.90	1.45	1.60
KTNR6028S-180MCS	18	\pm 20%	156	1.52	1.80	1.45	1.60
KTNR6028S-220MCS	22	\pm 20%	182	1.45	1.80	1.40	1.60
KTNR6028S-270MCS	27	\pm 20%	202	1.50	1.60	1.32	1.40
KTNR6028S-330MCS	33	\pm 20%	241	1.35	1.50	1.22	1.30
KTNR6028S-360MCS	36	\pm 20%	280	1.25	1.40	1.13	1.20
KTNR6028S-390MCS	39	\pm 20%	293	1.25	1.40	1.10	1.20
KTNR6028S-470MCS	47	\pm 20%	410	1.15	1.30	1.06	1.10
KTNR6028S-560MCS	56	\pm 20%	449	1.05	1.20	0.89	1.00
KTNR6028S-680MCS	68	\pm 20%	468	0.80	0.95	0.86	0.95
KTNR6028S-750MCS	75	\pm 20%	533	0.90	0.99	0.81	0.90
KTNR6028S-820MCS	82	\pm 20%	650	0.80	0.88	0.70	0.77
KTNR6028S-101MCS	100	\pm 20%	650	0.65	0.71	0.70	0.77
KTNR6028S-401MCS	400	\pm 20%	2808	0.30	0.33	0.40	0.45
KTNR6028S-102MCS	1000	\pm 20%	7540	0.18	0.22	0.23	0.26

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KTNR6045S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR6045S-R47NCS	0.47	±30%	8	15.00	16.50	6.50	6.60
KTNR6045S-R56NCS	0.56	±30%	8	14.00	15.00	6.50	7.50
KTNR6045S-R68NCS	0.68	±30%	8	11.00	12.00	5.70	6.50
KTNR6045S-R82NCS	0.82	±30%	10	10.35	11.00	5.90	6.50
KTNR6045S-1R0NCS	1.0	±30%	14	9.85	10.00	5.14	5.60
KTNR6045S-1R2NCS	1.2	±30%	13	8.35	9.10	5.40	5.90
KTNR6045S-1R5NCS	1.5	±30%	16	8.80	9.70	4.95	5.40
KTNR6045S-1R8NCS	1.8	±30%	16	7.60	8.40	4.95	5.40
KTNR6045S-2R2NCS	2.2	±30%	18	6.75	7.40	4.60	5.00
KTNR6045S-2R7NCS	2.7	±30%	20	5.75	6.30	4.30	4.70
KTNR6045S-3R3NCS	3.3	±30%	27	5.90	6.20	3.70	4.00
KTNR6045S-3R6NCS	3.6	±30%	27	5.25	5.70	3.70	4.00
KTNR6045S-4R5MCS	4.5	±20%	34	4.97	5.50	3.30	3.60
KTNR6045S-4R7MCS	4.7	±20%	34	4.97	5.50	3.30	3.60
KTNR6045S-5R1MCS	5.1	±20%	34	4.40	4.80	3.30	3.60
KTNR6045S-5R6MCS	5.6	±20%	38	4.15	4.60	3.15	3.40
KTNR6045S-6R8MCS	6.8	±20%	40	3.90	4.30	3.00	3.30
KTNR6045S-8R2MCS	8.2	±20%	56	3.90	4.30	2.60	2.80
KTNR6045S-100MCS	10	±20%	62	3.20	3.50	2.45	2.70
KTNR6045S-120MCS	12	±20%	75	2.80	3.00	2.20	2.40
KTNR6045S-150MCS	15	±20%	88	2.50	2.70	2.05	2.20
KTNR6045S-180MCS	18	±20%	105	2.20	2.40	1.85	2.00
KTNR6045S-220MCS	22	±20%	116	2.05	2.20	1.80	2.00
KTNR6045S-270MCS	27	±20%	133	1.90	2.10	1.65	1.80
KTNR6045S-300MCS	30	±20%	172	1.70	1.80	1.50	1.60
KTNR6045S-330MCS	33	±20%	178	1.65	1.80	1.45	1.60
KTNR6045S-360MCS	36	±20%	225	1.62	1.80	1.40	1.50
KTNR6045S-390MCS	39	±20%	234	1.50	1.60	1.25	1.40
KTNR6045S-430MCS	43	±20%	260	1.63	1.80	1.20	1.30
KTNR6045S-470MCS	47	±20%	260	1.40	1.50	1.20	1.30
KTNR6045S-510MCS	51	±20%	269	1.35	1.50	1.15	1.20
KTNR6045S-560MCS	56	±20%	287	1.30	1.40	1.10	1.20
KTNR6045S-620MCS	62	±20%	306	1.25	1.40	1.10	1.20
KTNR6045S-680MCS	68	±20%	376	1.20	1.30	1.00	1.10
KTNR6045S-750MCS	75	±20%	397	1.15	1.20	0.95	1.00
KTNR6045S-820MCS	82	±20%	443	1.05	1.10	0.90	0.99
KTNR6045S-101MCS	100	±20%	563	0.95	1.00	0.80	0.88
KTNR6045S-121MCS	120	±20%	629	0.85	0.94	0.77	0.85
KTNR6045S-151MCS	150	±20%	754	0.80	0.88	0.70	0.77
KTNR6045S-221MCS	220	±20%	1084	0.70	0.77	0.59	0.65
KTNR6045S-331MCS	330	±20%	1651	0.57	0.63	0.57	0.63
KTNR6045S-471MCS	470	±20%	2340	0.50	0.56	0.42	0.48
KTNR6045S-681MCS	680	±20%	3250	0.42	0.46	0.33	0.38
KTNR6045S-102MCS	1000	±20%	5850	0.30	0.35	0.30	0.35
KTNR6045S-152MCS	1500	±20%	8450	0.24	0.27	0.21	0.24

All specifications are subject to change without notice.

KTNR8040S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR8040S-R82NCS	0.82	\pm 30%	10	13.8	16.0	6.30	6.90
KTNR8040S-1R0NCS	1.0	\pm 30%	10	9.85	14.0	6.30	6.90
KTNR8040S-1R2NCS	1.2	\pm 30%	13	10.0	14.0	5.65	6.20
KTNR8040S-1R5NCS	1.5	\pm 30%	13	8.15	11.0	5.65	6.20
KTNR8040S-2R0NCS	2.0	\pm 30%	16	9.25	10.0	5.15	5.60
KTNR8040S-2R2NCS	2.2	\pm 30%	16	7.10	8.00	5.15	5.60
KTNR8040S-3R0NCS	3.0	\pm 30%	18	6.10	7.00	4.70	5.20
KTNR8040S-3R3NCS	3.3	\pm 30%	22	6.50	7.00	4.40	4.80
KTNR8040S-3R6MCS	3.6	\pm 20%	22	7.52	8.50	4.35	4.80
KTNR8040S-3R9NCS	3.9	\pm 30%	22	5.75	6.50	4.35	4.80
KTNR8040S-4R7NCS	4.7	\pm 30%	25	5.90	6.50	4.10	4.50
KTNR8040S-5R6NCS	5.6	\pm 30%	27	6.00	6.90	3.85	4.20
KTNR8040S-6R2NCS	6.2	\pm 30%	27	4.45	5.10	3.85	4.20
KTNR8040S-6R8MCS	6.8	\pm 20%	31	4.55	5.20	3.60	4.00
KTNR8040S-8R2MCS	8.2	\pm 20%	34	4.20	4.80	3.45	3.80
KTNR8040S-100MCS	10	\pm 20%	38	3.60	4.10	3.30	3.60
KTNR8040S-120MCS	12	\pm 20%	53	3.50	4.00	2.80	3.00
KTNR8040S-150MCS	15	\pm 20%	61	2.95	3.40	2.60	2.80
KTNR8040S-180MCS	18	\pm 20%	69	2.70	3.10	2.40	2.60
KTNR8040S-220MCS	22	\pm 20%	90	2.40	2.70	2.10	2.30
KTNR8040S-270MCS	27	\pm 20%	101	2.15	2.50	2.00	2.20
KTNR8040S-330MCS	33	\pm 20%	126	2.005	2.40	1.80	2.00
KTNR8040S-360MCS	36	\pm 20%	133	2.00	2.30	1.75	1.90
KTNR8040S-390MCS	39	\pm 20%	139	1.95	2.20	1.70	1.90
KTNR8040S-430MCS	43	\pm 20%	147	1.90	2.20	1.65	1.80
KTNR8040S-470MCS	47	\pm 20%	177	1.75	2.00	1.55	1.70
KTNR8040S-510MCS	51	\pm 20%	185	1.70	1.90	1.50	1.60
KTNR8040S-560MCS	56	\pm 20%	192	1.55	1.70	1.45	1.60
KTNR8040S-620MCS	62	\pm 20%	237	1.50	1.60	1.30	1.40
KTNR8040S-680MCS	68	\pm 20%	255	1.45	1.60	1.25	1.40
KTNR8040S-750MCS	75	\pm 20%	274	1.35	1.50	1.20	1.30
KTNR8040S-820MCS	82	\pm 20%	293	1.30	1.40	1.15	1.20
KTNR8040S-910MCS	91	\pm 20%	354	1.20	1.30	1.05	1.10
KTNR8040S-101MCS	100	\pm 20%	377	1.15	1.30	1.00	1.10
KTNR8040S-121MCS	120	\pm 20%	434	1.05	1.10	0.95	1.00
KTNR8040S-151MCS	150	\pm 20%	533	1.10	1.20	0.85	0.94
KTNR8040S-181MCS	180	\pm 20%	676	0.95	1.15	0.83	0.92
KTNR8040S-221MCS	220	\pm 20%	779	0.85	0.94	0.80	0.88
KTNR8040S-331MCS	330	\pm 20%	1156	0.68	0.75	0.64	0.70
KTNR8040S-471MCS	470	\pm 20%	1625	0.60	0.70	0.50	0.60
KTNR8040S-561MCS	560	\pm 20%	2327	0.50	0.60	0.47	0.54
KTNR8040S-681MCS	680	\pm 20%	2652	0.50	0.60	0.45	0.50
KTNR8040S-821MCS	820	\pm 20%	3640	0.53	0.60	0.35	0.40
KTNR8040S-102MCS	1000	\pm 20%	3640	0.40	0.50	0.35	0.40
KTNR8040S-152MCS	1500	\pm 20%	6500	0.32	0.38	0.26	0.27

All specifications are subject to change without notice.

KTNR8050S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 20%	I sat ③ (A) typ.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A)) typ.
KTNR8050S-1R5MCS	1.5	\pm 20%	12.00	10	12.0	6.00	6.40
KTNR8050S-102MCS	1000	\pm 20%	2520	0.32	0.35	0.33	0.35
KTNR8050S-122KCS	1200	\pm 10%	5400	0.70	0.80	0.30	0.35
KTNR8050S-152KCS	1500	\pm 10%	5010	0.60	0.70	0.29	0.33
KTNR8050S-103MCS	10000	\pm 20%	22800	0.09	0.10	0.11	0.13

The test frequency of KTNR8050S103MCS is 1kHz.

KTNR8060S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) \pm 20%	I sat ③ (A) typ.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A)) typ.
KTNR8060S-681KCS	680	\pm 10%	2170	0.72	0.82	0.46	0.53
KTNR8060S-162KCS	1600	\pm 10%	4500	0.47	0.55	0.33	0.38
KTNR8060S-202KCS	2000	\pm 10%	5800	0.42	0.50	0.28	0.32
KTNR8060S-222KCS	2200	\pm 10%	6880	0.42	0.49	0.26	0.30
KTNR8060S-502KCS	5000	\pm 10%	14900	0.27	0.31	0.18	0.21

KTNR8065S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR8065S-8R2MCS	8.2	\pm 20%	31.00	7.00	7.00	4.20	4.80
KTNR8065S-100MCS	10	\pm 20%	44.00	8.00	8.90	3.20	3.70
KTNR8065S-150MCS	15	\pm 20%	53.00	5.70	6.70	3.30	3.80
KTNR8065S-220MCS	22	\pm 20%	72.00	4.30	4.80	2.70	3.10
KTNR8065S-470MCS	47	\pm 20%	152.0	3.40	3.70	1.85	2.15
KTNR8065S-560MCS	56	\pm 20%	198.0	3.20	3.70	1.35	1.55
KTNR8065S-680MCS	68	\pm 20%	218.0	2.70	3.20	1.55	1.80
KTNR8065S-101MCS	100	\pm 20%	280.0	2.00	2.40	1.35	1.45
KTNR8065S-151MCS	150	\pm 20%	440.0	1.60	2.00	0.95	1.10
KTNR8065S-221MCS	220	\pm 20%	656.0	1.20	1.50	0.80	0.90
KTNR8065S-331MCS	330	\pm 20%	840.0	1.00	1.20	0.75	0.85
KTNR8065S-471MCS	470	\pm 20%	1560	1.00	1.20	0.55	0.65
KTNR8065S-681MCS	680	\pm 20%	1944	0.85	1.00	0.52	0.60
KTNR8065S-102MCS	1000	\pm 20%	2820	0.65	0.73	0.40	0.45
KTNR8065S-152MCS	1500	\pm 20%	4380	0.54	0.60	0.32	0.37
KTNR8065S-222MCS	2200	\pm 20%	6000	0.45	0.51	0.27	0.31
KTNR8065S-332MCS	3300	\pm 20%	8760	0.36	0.40	0.23	0.26
KTNR8065S-472MCS	4700	\pm 20%	14580	0.29	0.33	0.18	0.20
KTNR8065S-682MCS	6800	\pm 20%	22440	0.26	0.29	0.14	0.16
KTNR8065S-103MCS	10000	\pm 20%	27360	0.20	0.23	0.13	0.15

All specifications are subject to change without notice.

KTNR1050S Electrical Characteristics

Part Number	Inductance ① (μ H)	Inductance tolerance	DCR ② (m Ω) Max.	I sat ③ (A) Max.	I sat ③ (A) typ.	I rms ④ (A) Max.	I rms ④ (A) typ.
KTNR1050S-1R0NCS	1.0	±30%	18	9.85	14.0	6.30	6.90
KTNR1050S-1R2NCS	1.2	±30%	13	10.0	14.0	5.65	6.20
KTNR1050S-1R5NCS	1.5	±30%	13	8.15	11.0	5.65	6.20
KTNR1050S-2R0NCS	2.0	±30%	16	9.25	10.0	5.15	5.60
KTNR1050S-2R2NCS	2.2	±30%	16	7.10	8.00	5.15	5.60
KTNR1050S-3R0NCS	3.0	±30%	18	6.10	7.00	4.70	5.20
KTNR1050S-3R3NCS	3.3	±30%	22	6.50	7.00	4.40	4.80
KTNR1050S-3R6MCS	3.6	±20%	22	7.52	8.50	4.35	4.80
KTNR1050S-3R9NCS	3.9	±30%	22	5.75	6.50	4.35	4.80
KTNR1050S-4R7NCS	4.7	±30%	25	5.90	6.50	4.10	4.50
KTNR1050S-5R1NCS	5.1	±30%	25	4.70	5.40	4.05	4.40
KTNR1050S-5R6NCS	5.6	±30%	27	6.00	6.90	3.85	4.20
KTNR1050S-6R2NCS	6.2	±30%	27	4.45	5.10	3.85	4.20
KTNR1050S-6R8MCS	6.8	±20%	31	4.55	5.20	3.60	4.00
KTNR1050S-8R2MCS	8.2	±20%	34	4.20	4.80	3.45	3.80
KTNR1050S-100MCS	10	±20%	38	3.60	4.10	3.30	3.60
KTNR1050S-120MCS	12	±20%	53	3.50	4.00	2.80	3.00
KTNR1050S-150MCS	15	±20%	61	2.95	3.40	2.60	2.80
KTNR1050S-180MCS	18	±20%	69	2.70	3.10	2.40	2.60
KTNR1050S-220MCS	22	±20%	90	2.40	2.70	2.10	2.30
KTNR1050S-270MCS	27	±20%	101	2.15	2.50	2.00	2.20
KTNR1050S-330MCS	33	±20%	126	2.005	2.40	1.80	2.00

Note:

- ① Inductance tested at 100kHz, 0.1 Vrms using an Agilent/HP 4192A or equivalent.
- ② DCR measured on a micro-ohmmeter.
- ③ Isat: The DC current at which the inductance decreases by 30% of it's initial value.
- ④ Irms: The DC current at which $\Delta t=40^{\circ}\text{C}$.