

Features

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
- Metallization on ferrite core results in excellent shock resistance and damage-free durability
- Tiny power inductor design
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- Takes up less PCB real estate and save more power
- 30% lower DCR and larger current
- Operating temperature: -40°C to +125°C



Application

- DC/DC converters for high current power supplies
- Portable power like Smart Phone, PDA, digital camera
- Embedded laptops and PCs

Product Identification

KNR 252012 - 2R2 M □□□

① ② ③ ④ ⑤

①	Type
KNR	Wire Wound SMD Power Inductor

③	Nominal Inductance
example	Nominal Value
R47	0.47uH
2R2	2.2 uH

④	Inductance Tolerance
example	Nominal Value
K	±10%
M	±20%
N	±30%

②	External Dimensions (L×W×H) [mm]
201610	2.0x1.6x1.0
202012	2.0x2.0x1.2
252010	2.5x2.0x1.0
252012	2.5x2.0x1.2
3012	3.0x3.0x1.2
3015	3.0x3.0x1.5
4012	4.0x4.0x1.2
4018	4.0x4.0x1.8
4020	4.0x4.0x2.0
4030	4.0x4.0x3.0
8030	8.0x8.0x3.0
8040	8.0x8.0x4.0

⑤	Design Code
□□□	Standard product is blank

SHAPE AND DIMENSIONS

Fig.1

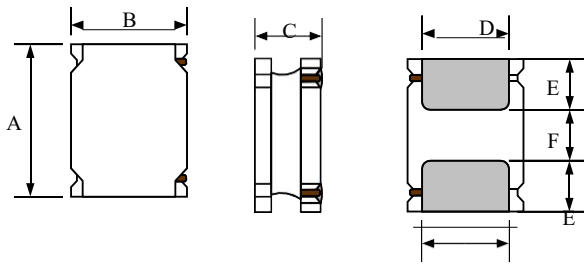


Fig.2

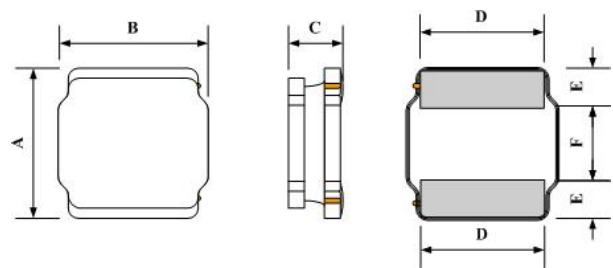
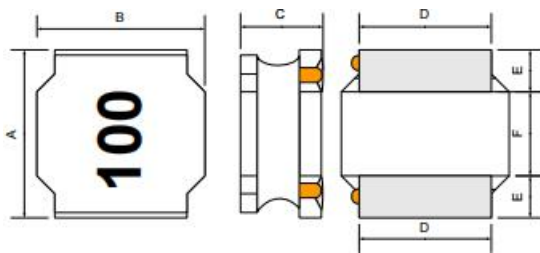
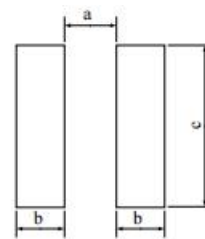


Fig.3



Recommended Land Pattern



Unit:mm

Series	Shape	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
KNR201610	Fig.1	2.0±0.2	1.6±0.2	1.0 Max.	1.2±0.2	0.60±0.2	0.80±0.2	0.70	0.70	1.7
KNR202012	Fig.1	2.0±0.1	2.0±0.1	1.2 Max.	1.5±0.2	0.60±0.2	0.80±0.2	0.65	0.70	2.0
KNR252010	Fig.1	2.5±0.2	2.0±0.2	1.0 Max.	1.5±0.2	0.80±0.2	0.80±0.2	0.80	0.85	2.0
KNR252012	Fig.1	2.5±0.2	2.0±0.2	1.2 Max.	1.5±0.2	0.80±0.2	0.80±0.2	0.80	0.85	2.0
KNR3012	Fig.2	3.0±0.2	3.0±0.2	1.2 Max.	2.5±0.2	0.75±0.2	1.5±0.2	1.5	0.8	2.7
KNR3015	Fig.2	3.0±0.2	3.0±0.2	1.5 Max.	2.5±0.2	0.75±0.2	1.5±0.2	1.5	0.8	2.7
KNR4012	Fig.3	4.0±0.2	4.0±0.2	1.2 Max.	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.7
KNR4018	Fig.3	4.0±0.2	4.0±0.2	1.8 Max.	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.7
KNR4020	Fig.3	4.0±0.2	4.0±0.2	2.0 Max.	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.7
KNR4030	Fig.3	4.0±0.2	4.0±0.2	3.0 Max.	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.7
KNR8030	Fig.3	8.0±0.3	8.0±0.3	3.0 Max.	6.3±0.3	2.00±0.3	4.0±0.3	3.0	2.2	7.5
KNR8040	Fig.3	8.0±0.3	8.0±0.3	4.2 Max.	6.3±0.3	2.00±0.3	4.0±0.3	3.8	2.2	7.5

SPECIFICATIONS

KNR201610 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		I _{rms}	
KNR201610-R16MT	0.16±20%	0.031	0.026	4.30	4.80	3.20	3.50
KNR201610-R24MT	0.24±20%	0.040	0.033	3.70	4.10	2.90	3.20
KNR201610-R33MT	0.33±20%	0.040	0.033	2.50	3.10	2.90	3.20
KNR201610-R47MT	0.47±20%	0.059	0.049	2.30	2.85	2.35	2.60
KNR201610-R54MT	0.54±20%	0.076	0.063	2.55	2.95	2.05	2.25

KNR201610-R68MT	0.68±20%	0.076	0.063	1.95	2.45	2.05	2.25
KNR201610-1R0MT	1.0±20%	0.114	0.095	1.65	1.85	1.45	1.60
KNR201610-1R5MT	1.5±20%	0.174	0.145	1.35	1.65	1.25	1.40
KNR201610-2R2MT	2.2±20%	0.264	0.220	1.20	1.45	1.10	1.20
KNR201610-3R3MT	3.3±20%	0.335	0.279	0.90	1.05	0.88	0.98
KNR201610-4R7MT	4.7±20%	0.479	0.399	0.70	0.85	0.74	0.82
KNR201610-6R8MT	6.8±20%	0.816	0.680	0.60	0.70	0.52	0.58
KNR201610-100MT	10.0±20%	1.020	0.850	0.50	0.55	0.45	0.50

KNR202012 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR202012-R16MT	0.16±20%	0.031	0.026	5.20	5.80	2.50	2.75
KNR202012-R24MT	0.24±20%	0.042	0.035	4.70	5.20	2.20	2.40
KNR202012-R33MT	0.33±20%	0.042	0.035	3.50	4.00	2.20	2.40
KNR202012-R47MT	0.47±20%	0.050	0.042	3.55	3.75	2.00	2.20
KNR202012-R68MT	0.68±20%	0.060	0.050	2.95	3.10	1.80	2.00
KNR202012-1R0MT	1.0±20%	0.088	0.073	2.70	2.85	1.50	1.65
KNR202012-1R5MT	1.5±20%	0.112	0.093	2.00	2.20	1.30	1.45
KNR202012-2R2MT	2.2±20%	0.127	0.106	1.40	1.65	1.20	1.35
KNR202012-3R3MT	3.3±20%	0.276	0.230	1.20	1.35	0.85	0.95
KNR202012-4R7MT	4.7±20%	0.294	0.245	0.97	1.10	0.82	0.90
KNR202012-6R8MT	6.8±20%	0.479	0.399	0.82	0.92	0.64	0.70
KNR202012-100MT	10±20%	0.785	0.654	0.72	0.82	0.49	0.54
KNR202012-150MT	15±20%	1.368	1.140	0.55	0.65	0.38	0.42
KNR202012-180MT	18±20%	1.680	1.400	0.60	0.68	0.35	0.38
KNR202012-220MT	22±20%	1.680	1.400	0.40	0.50	0.35	0.38
KNR202012-330MT	33±20%	2.160	1.800	0.35	0.40	0.30	0.33

KNR252010 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR252010-R24MT	0.24±20%	0.034	0.028	3.60	4.40	2.75	3.00
KNR252010-R33MT	0.33±20%	0.043	0.036	3.80	4.60	2.40	2.65
KNR252010-R47MT	0.47±20%	0.044	0.037	2.40	2.80	2.40	2.65

KNR252010-R68MT	0.68±20%	0.061	0.051	2.75	3.10	2.10	2.35
KNR252010-1R0MT	1.0±20%	0.080	0.067	2.05	2.45	1.80	2.00
KNR252010-1R5MT	1.5±20%	0.108	0.090	1.70	2.05	1.55	1.70
KNR252010-2R2MT	2.2±20%	0.137	0.114	1.55	1.80	1.40	1.55
KNR252010-3R3MT	3.3±20%	0.228	0.170	1.10	1.40	1.10	1.20
KNR252010-3R9MT	3.9±20%	0.271	0.226	1.07	1.25	1.00	1.06
KNR252010-4R7MT	4.7±20%	0.323	0.269	1.00	1.15	0.91	1.00
KNR252010-5R6MT	5.6±20%	0.348	0.290	0.90	1.00	0.80	0.92
KNR252010-6R8MT	6.8±20%	0.451	0.376	0.82	0.95	0.76	0.84
KNR252010-8R2M	8.2±20%	0.584	0.487	0.85	0.95	0.67	0.74
KNR252010-100MT	10±20%	0.584	0.487	0.65	0.75	0.67	0.74
KNR252010-150MT	15±20%	0.954	0.795	0.55	0.65	0.50	0.55
KNR252010-220MT	22±20%	1.548	1.290	0.45	0.55	0.40	0.45
KNR252010-330MT	33±20%	1.548	1.290	0.25	0.30	0.40	0.45

KNR252012 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR252012-R16MT	0.16±20%	0.022	0.018	6.50	7.20	4.05	4.50
KNR252012-R22MT	0.22±20%	0.024	0.020	6.70	7.60	3.20	3.70
KNR252012-R24MT	0.24±20%	0.022	0.018	4.00	4.75	4.05	4.50
KNR252012-R33MT	0.33±20%	0.029	0.024	4.00	4.70	3.35	3.70
KNR252012-R47MT	0.47±20%	0.036	0.030	3.70	4.10	3.00	3.30
KNR252012-R68MT	0.68±20%	0.061	0.051	3.00	3.30	2.10	2.30
KNR252012-1R0MT	1.0±20%	0.044	0.037	1.70	1.90	2.20	2.40
KNR252012-1R2MT	1.2±20%	0.078	0.065	2.20	2.50	1.95	2.10
KNR252012-1R5MT	1.5±20%	0.078	0.065	2.00	2.35	1.95	2.10
KNR252012-2R2MT	2.2±20%	0.096	0.080	1.80	1.95	1.80	1.95
KNR252012-2R7MT	2.7±20%	0.179	0.149	1.85	2.00	1.20	1.40
KNR252012-3R3MT	3.3±20%	0.144	0.120	1.15	1.25	1.40	1.50
KNR252012-4R7MT	4.7±20%	0.210	0.175	1.10	1.20	1.12	1.25
KNR252012-5R6MT	5.6±20%	0.336	0.280	1.00	1.15	0.80	0.90
KNR252012-6R8MT	6.8±20%	0.360	0.300	0.80	1.00	0.95	1.05
KNR252012-100MT	10±20%	0.522	0.435	0.70	0.85	0.79	0.87
KNR252012-150MT	15±20%	1.000	0.830	0.65	0.75	0.57	0.63
KNR252012-180MT	18±20%	1.000	0.830	0.50	0.65	0.57	0.63
KNR252012-220MT	22±20%	1.090	0.910	0.45	0.55	0.54	0.60

KNR252012-330MT	33±20%	1.840	1.530	0.35	0.40	0.42	0.46
KNR252012-470MT	47±20%	2.220	1.850	0.25	0.30	0.30	0.35
KNR252012-560MT	56±20%	2.760	2.300	0.30	0.35	0.29	0.33
KNR252012-680MT	68±20%	3.000	2.500	0.30	0.35	0.28	0.32
KNR252012-820MT	82±20%	3.096	2.580	0.21	0.25	0.28	0.32

KNR3012 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR3012-R10MT	0.1±20%	0.018	0.015	9.20	10.58	3.50	4.03
KNR3012-R47MT	0.47±20%	0.030	0.025	3.80	4.40	2.90	3.30
KNR3012-1R0MT	1.0±20%	0.040	0.032	2.20	2.50	2.30	2.50
KNR3012-1R5MT	1.5±20%	0.062	0.052	2.00	2.30	2.00	2.20
KNR3012-2R2MT	2.2±20%	0.090	0.075	1.50	1.80	1.40	1.60
KNR3012-3R3MT	3.3±20%	0.134	0.112	1.23	1.55	1.40	1.60
KNR3012-4R7MT	4.7±20%	0.176	0.147	1.10	1.40	1.30	1.50
KNR3012-6R8MT	6.8±20%	0.259	0.216	1.00	1.20	1.00	1.20
KNR3012-100MT	10±20%	0.372	0.310	0.75	0.90	0.75	0.80
KNR3012-150MT	15±20%	0.66	0.55	0.65	0.75	0.63	0.72
KNR3012-220MT	22±20%	0.84	0.7	0.5	0.6	0.5	0.55

KNR3015 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR3015-R10MT	0.1±20%	0.007	0.006	8.00	9.20	4.60	5.30
KNR3015-R22MT	0.22±20%	0.022	0.018	6.00	6.80	3.00	3.50
KNR3015-R24MT	0.24±20%	0.022	0.018	5.50	5.50	3.00	3.50
KNR3015-R47MT	0.47±20%	0.022	0.018	2.40	2.80	3.00	3.50
KNR3015-R55MT	0.55±20%	0.019	0.016	2.40	2.70	3.05	3.55
KNR3015-1R0MT	1.0±20%	0.040	0.033	2.70	3.00	2.20	2.50
KNR3015-1R5MT	1.5±20%	0.048	0.040	2.00	2.30	2.00	2.30
KNR3015-1R8MT	1.8±20%	0.050	0.042	1.60	1.90	1.90	2.20
KNR3015-2R2MT	2.2±20%	0.060	0.050	1.50	1.70	1.80	2.05
KNR3015-3R3MT	3.3±20%	0.084	0.070	1.30	1.50	1.50	1.70
KNR3015-3R9MT	3.9±20%	0.115	0.096	1.30	1.60	1.30	1.50

KNR3015-4R7MT	4.7±20%	0.115	0.096	1.10	1.20	1.30	1.50
KNR3015-6R8MT	6.8±20%	0.144	0.120	0.80	0.90	1.16	1.35
KNR3015-100MT	10±20%	0.276	0.230	0.75	0.90	0.84	0.97
KNR3015-150MT	15±20%	0.360	0.300	0.60	0.70	0.73	0.84
KNR3015-220MT	22±20%	0.540	0.450	0.52	0.60	0.60	0.70
KNR3015-260MT	26±20%	0.768	0.640	0.40	0.50	0.45	0.55
KNR3015-330MT	33±20%	1.090	0.910	0.50	0.55	0.50	0.55
KNR3015-470MT	47±20%	1.250	1.040	0.35	0.42	0.45	0.50
KNR3015-560MT	56±20%	1.776	1.480	0.32	0.37	0.35	0.40
KNR3015-680MT	68±20%	1.920	1.600	0.30	0.35	0.34	0.39
KNR3015-101MT	100±20%	2.280	1.900	0.23	0.26	0.30	0.35

KNR4012 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR4012-R33NT	0.33±30%	0.031	0.026	5.50	6.30	2.90	3.35
KNR4012-R47NT	0.47±30%	0.032	0.027	3.50	4.20	2.90	3.20
KNR4012-R82NT	0.82±30%	0.042	0.035	3.00	3.50	2.50	2.90
KNR4012-1R0NT	1.0±30%	0.050	0.042	2.80	3.30	2.20	2.50
KNR4012-1R2NT	1.2±30%	0.050	0.042	2.70	3.20	2.20	2.50
KNR4012-1R5NT	1.5±30%	0.050	0.042	2.10	2.20	2.20	2.50
KNR4012-1R8NT	1.8±30%	0.066	0.055	2.10	2.40	2.00	2.30
KNR4012-2R2MT	2.2±20%	0.066	0.055	1.70	1.80	2.00	2.30
KNR4012-2R7MT	2.7±20%	0.084	0.070	1.90	2.20	1.70	2.00
KNR4012-3R3MT	3.3±20%	0.084	0.070	1.40	1.70	1.70	2.00
KNR4012-3R6MT	3.6±20%	0.090	0.075	1.20	1.60	1.70	2.00
KNR4012-4R3MT	4.3±20%	0.108	0.090	1.20	1.50	1.50	1.80
KNR4012-4R7MT	4.7±20%	0.108	0.090	1.20	1.30	1.50	1.80
KNR4012-5R1MT	5.1±20%	0.132	0.110	1.20	1.40	1.40	1.60
KNR4012-5R6MT	5.6±20%	0.132	0.110	1.10	1.40	1.40	1.60
KNR4012-6R8MT	6.8±20%	0.150	0.125	0.90	1.10	1.30	1.60
KNR4012-100MT	10±20%	0.204	0.170	0.80	0.90	1.10	1.30
KNR4012-120MT	12±20%	0.312	0.260	0.85	1.00	0.90	1.00
KNR4012-150MT	15±20%	0.312	0.260	0.65	0.80	0.90	1.00
KNR4012-180MT	18±20%	0.432	0.360	0.65	0.80	0.78	0.90
KNR4012-220MT	22±20%	0.460	0.380	0.50	0.65	0.78	0.90
KNR4012-270MT	27±20%	0.672	0.560	0.50	0.60	0.63	0.73

KNR4012-330MT	33±20%	0.756	0.630	0.45	0.55	0.57	0.68
KNR4012-360MT	36±20%	0.756	0.630	0.40	0.50	0.57	0.68
KNR4012-390MT	39±20%	1.188	0.990	0.55	0.62	0.47	0.54
KNR4012-470MT	47±20%	1.188	0.990	0.40	0.50	0.47	0.54
KNR4012-560MT	56±20%	1.320	1.100	0.35	0.45	0.45	0.52
KNR4012-680MT	68±20%	1.800	1.500	0.38	0.45	0.38	0.44
KNR4012-820MT	82±20%	2.040	1.700	0.30	0.38	0.36	0.42
KNR4012-101MT	100±20%	2.040	1.700	0.25	0.31	0.36	0.42

KNR4018 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR4018-R33NT	0.33±30%	0.016	0.012	6.50	8.00	4.20	4.70
KNR4018-R47NT	0.47±30%	0.020	0.017	6.50	7.20	3.50	4.00
KNR4018-1R0NT	1.0±30%	0.032	0.027	4.00	4.80	3.20	3.70
KNR4018-1R5NT	1.5±30%	0.037	0.031	3.60	4.30	2.95	3.30
KNR4018-2R2MT	2.2±20%	0.050	0.042	3.00	3.40	2.20	2.90
KNR4018-3R3MT	3.3±20%	0.066	0.055	2.30	2.90	2.00	2.50
KNR4018-4R7MT	4.7±20%	0.084	0.070	2.00	2.20	1.70	2.10
KNR4018-6R8MT	6.8±20%	0.118	0.098	1.60	1.80	1.45	1.70
KNR4018-100MT	10±20%	0.180	0.150	1.30	1.50	1.20	1.50
KNR4018-150MT	15±20%	0.252	0.210	1.10	1.20	0.85	1.20
KNR4018-220MT	22±20%	0.348	0.290	0.90	1.10	0.70	1.00
KNR4018-330MT	33±20%	0.552	0.460	0.70	0.90	0.55	0.82
KNR4018-390MT	39±20%	0.612	0.510	0.70	0.83	0.69	0.80
KNR4018-470MT	47±20%	0.744	0.620	0.57	0.70	0.91	1.01
KNR4018-680MT	68±20%	0.972	0.810	0.53	0.62	0.68	0.73
KNR4018-101MT	100±20%	1.560	1.300	0.49	0.57	0.40	0.47
KNR4018-151MT	150±20%	3.120	2.600	0.41	0.47	0.28	0.33
KNR4018-221MT	220±20%	3.840	3.200	0.33	0.38	0.25	0.29
KNR4018-331MT	330±20%	5.880	4.900	0.26	0.31	0.20	0.23

KNR4020 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR4020-R33NT	0.33±30%	0.016	0.013	7.50	8.50	3.30	4.90

KNR4030 Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz 1v	Max.	Typ.	Max.	Typ.	Max.	Typ.
units	uH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
KNR4030-R10NT	0.10±30%	0.006	0.005	17.00	18.50	4.60	6.30
KNR4030-R22NT	0.22±30%	0.007	0.006	11.50	12.50	3.90	5.20
KNR4030-R47NT	0.47±30%	0.013	0.011	8.20	9.20	4.50	5.20
KNR4030-1R0NT	1.0±30%	0.017	0.014	5.60	6.50	4.10	4.80
KNR4030-2R2NT	2.2±30%	0.036	0.030	4.90	5.60	2.95	3.40

KNR8030 Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@100kHz 1V	Max.	Typ.	Min.	Max.	Typ.	Max.	Typ.
Units	uH	Ω		MHz	A		A	
Symbol	L	DCR		S.R.F	Isat		Irms	
KNR8030-1R0NT	1.0±30%	0.012	0.009	7.80	9.00	6.20	6.20	7.30
KNR8030-1R5NT	1.5±30%	0.016	0.012	6.20	7.60	5.30	5.30	6.20
KNR8030-2R2MT	2.2±20%	0.02	0.015	4.90	6.30	4.8	4.80	5.70
KNR8030-3R3MT	3.3±20%	0.025	0.019	4.20	5.10	4.3	4.30	5.10
KNR8030-4R7MT	4.7±20%	0.029	0.022	3.60	4.30	4.00	4.00	4.70
KNR8030-6R8MT	6.8±20%	0.038	0.029	3.00	3.50	3.40	3.40	3.90
KNR8030-100MT	10±20%	0.043	0.033	2.40	2.80	3.0	3.00	3.70
KNR8030-150MT	15±20%	0.078	0.060	2.00	2.40	2.2	2.20	2.80
KNR8030-220MT	22±20%	0.091	0.070	1.75	2.00	1.90	1.90	2.40
KNR8030-330MT	33±20%	0.156	0.120	1.30	1.70	1.50	1.50	2.10
KNR8030-470MT	47±20%	0.221	0.170	1.10	1.40	1.3	1.30	1.70

KNR8040 Series

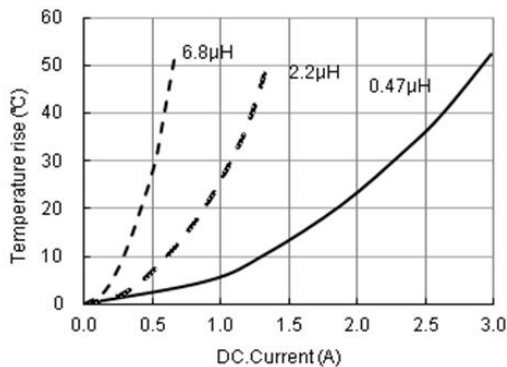
Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@100kHz,1V	Max.	Typ.	Min.	Max.	Typ.	Max.	Typ.
Units	µH	Ω		MHz	A		A	
Symbol	L	DCR		S.R.F	Isat		Irms	
KNR8040-R82NT	0.82±30%	0.010	0.008	94	13.80	16.00	6.30	6.90
KNR8040-1R0NT	1.0±30%	0.010	0.008	89	9.85	14.00	6.30	6.90
KNR8040-1R2NT	1.2±30%	0.013	0.010	59	10.00	14.00	5.65	6.20
KNR8040-1R5NT	1.5±30%	0.013	0.010	67	8.15	11.00	5.65	6.20
KNR8040-2R0NT	2.0±30%	0.016	0.012	43	9.25	10.00	5.15	5.60
KNR8040-2R2NT	2.2±30%	0.016	0.012	41	7.10	8.00	5.15	5.60
KNR8040-3R0NT	3.0±30%	0.018	0.014	32	6.10	7.00	4.70	5.20
KNR8040-3R3NT	3.3±30%	0.022	0.017	27	6.50	7.00	4.40	4.80
KNR8040-3R6NT	3.6±30%	0.022	0.017	30	7.52	8.50	4.35	4.80
KNR8040-3R9NT	3.9±30%	0.022	0.017	26	5.75	6.50	4.35	4.80
KNR8040-4R7NT	4.7±30%	0.025	0.019	24	5.90	6.50	4.10	4.50
KNR8040-5R1NT	5.1±30%	0.025	0.019	22	4.70	5.40	4.05	4.40
KNR8040-5R6NT	5.6±30%	0.027	0.021	24	6.00	6.90	3.85	4.20
KNR8040-6R2NT	6.2±30%	0.027	0.021	20	4.45	5.10	3.85	4.20
KNR8040-6R8MT	6.8±20%	0.031	0.024	20	4.55	5.20	3.60	4.00
KNR8040-8R2MT	8.2±20%	0.034	0.026	17	4.20	4.80	3.45	3.80
KNR8040-100MT	10±20%	0.038	0.029	15	3.60	4.10	3.30	3.60
KNR8040-120MT	12±20%	0.053	0.041	13	3.50	4.00	2.80	3.00
KNR8040-150MT	15±20%	0.061	0.047	12	2.95	3.40	2.60	2.80
KNR8040-180MT	18±20%	0.069	0.053	11	2.70	3.10	2.40	2.60
KNR8040-220MT	22±20%	0.090	0.069	9.5	2.40	2.70	2.10	2.30
KNR8040-270MT	27±20%	0.101	0.078	9.2	2.15	2.50	2.00	2.20
KNR8040-330MT	33±20%	0.126	0.097	7.8	2.05	2.40	1.80	2.00
KNR8040-360MT	36±20%	0.133	0.102	7.8	2.00	2.30	1.75	1.90
KNR8040-390MT	39±20%	0.139	0.107	7.8	1.95	2.20	1.70	1.90
KNR8040-430MT	43±20%	0.147	0.113	7.8	1.90	2.20	1.65	1.80
KNR8040-470MT	47±20%	0.177	0.136	6.4	1.75	2.00	1.55	1.70
KNR8040-510MT	51±20%	0.185	0.142	6.4	1.70	1.90	1.50	1.60
KNR8040-620MT	62±20%	0.237	0.182	6.4	1.50	1.60	1.30	1.40
KNR8040-680MT	68±20%	0.255	0.196	4.9	1.45	1.60	1.25	1.40
KNR8040-750MT	75±20%	0.274	0.211	4.9	1.35	1.50	1.20	1.30
KNR8040-820MT	82±20%	0.293	0.225	5.9	1.30	1.40	1.15	1.20
KNR8040-910MT	91±20%	0.354	0.272	4.9	1.20	1.30	1.05	1.10
KNR8040-101MT	100±20%	0.377	0.290	4.2	1.15	1.30	1.00	1.10
KNR8040-121MT	120±20%	0.434	0.334	3.5	1.05	1.10	0.95	1.00
KNR8040-151MT	150±20%	0.533	0.410	3.5	1.10	1.20	0.85	0.94

KNR8040-181MT	180±20%	0.676	0.520	3.5	0.95	1.15	0.83	0.92
KNR8040-221MT	220±20%	0.779	0.599	3.5	0.85	0.94	0.80	0.88
KNR8040-271MT	270±20%	0.975	0.750	3	0.80	0.95	0.75	0.78
KNR8040-331MT	330±20%	1.156	0.889	2.8	0.68	0.75	0.64	0.70
KNR8040-391MT	390±20%	1.118	0.860	2.2	0.53	0.68	0.60	0.70
KNR8040-471MT	470±20%	1.625	1.260	2.1	0.60	0.70	0.50	0.60
KNR8040-561MT	560±20%	2.327	1.790	2.3	0.50	0.60	0.47	0.54
KNR8040-681MT	680±20%	2.652	2.040	1.7	0.50	0.60	0.45	0.50
KNR8040-821MT	820±20%	3.640	2.800	1.7	0.53	0.60	0.35	0.40

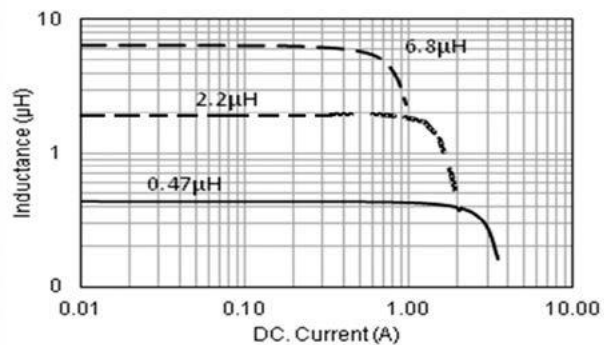
TYPICAL ELECTRICAL CHARACTERISTICS

KNR201610 Series

Temperature vs. DC Current Characteristics

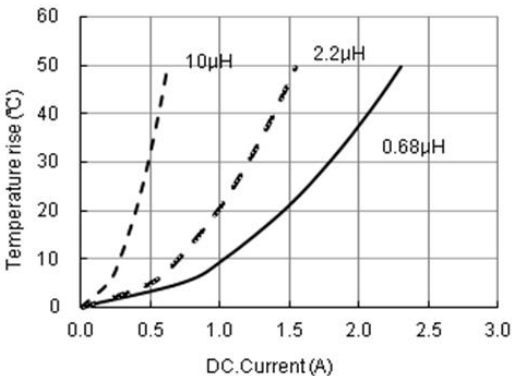


Inductance vs. DC Current Characteristics

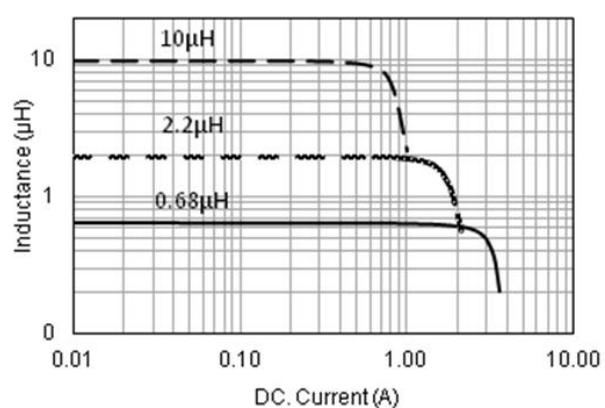


KNR202012 Series

Temperature vs. DC Current Characteristics

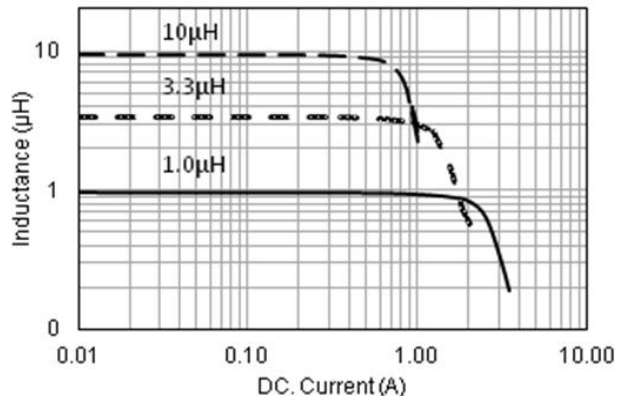
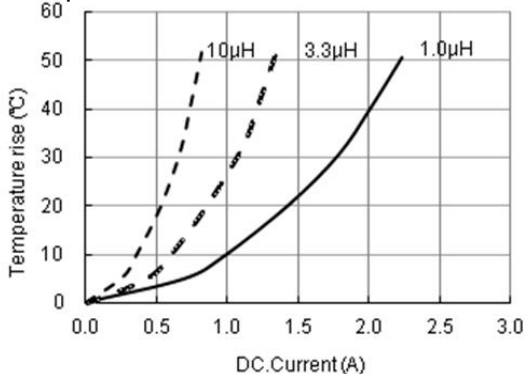


Inductance vs. DC Current Characteristics



KNR252010 Series

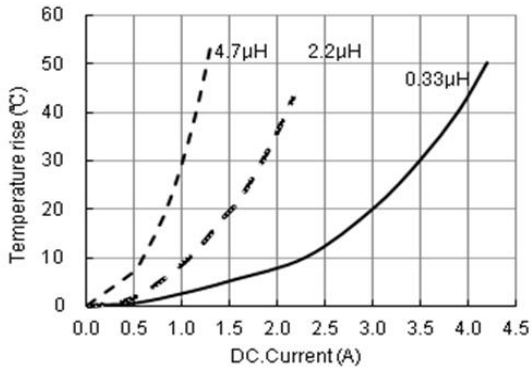
Temperature vs. DC Current Characteristics



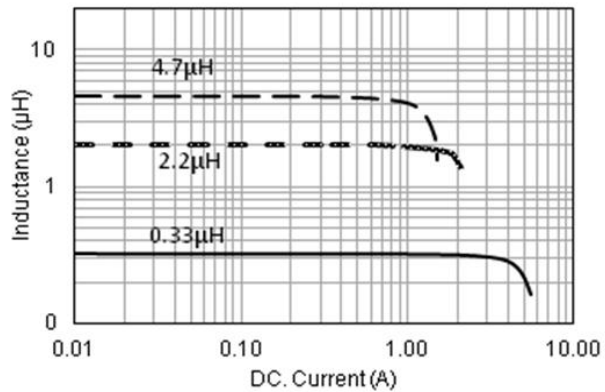
TYPICAL ELECTRICAL CHARACTERISTICS

KNR252012 Series

Temperature vs. DC Current Characteristics

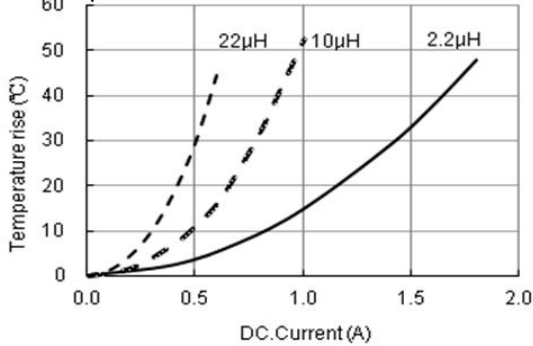


Inductance vs. DC Current Characteristics

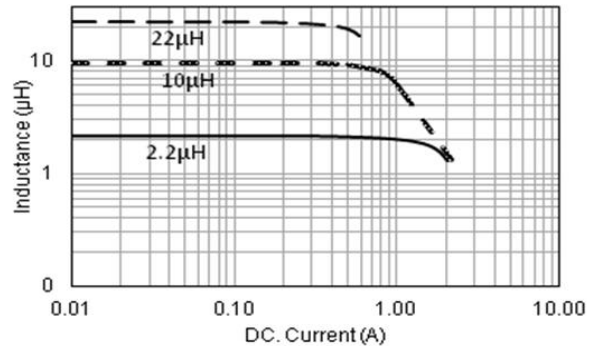


KNR3012 Series

Temperature vs. DC Current Characteristics

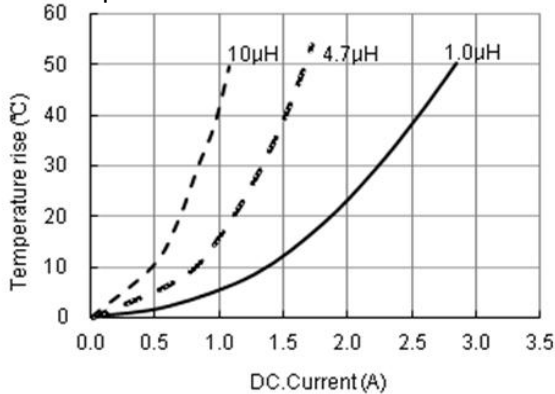


Inductance vs. DC Current Characteristics

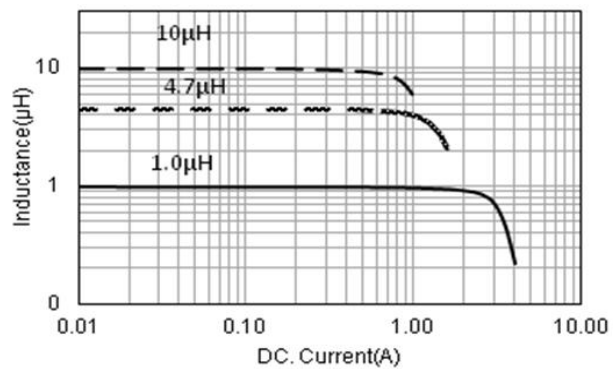


KNR3015 Series

Temperature vs. DC Current Characteristics

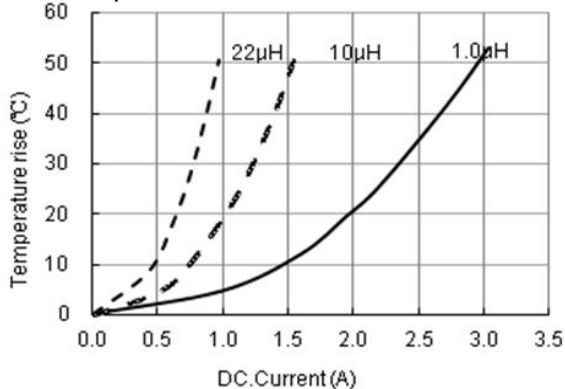


Inductance vs. DC Current Characteristics

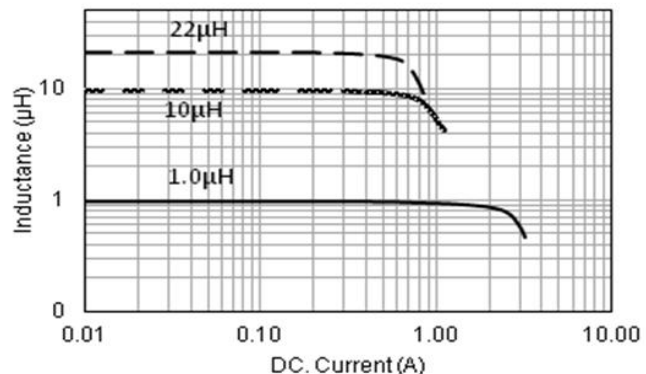


KNR4012 Series

Temperature vs. DC Current Characteristics



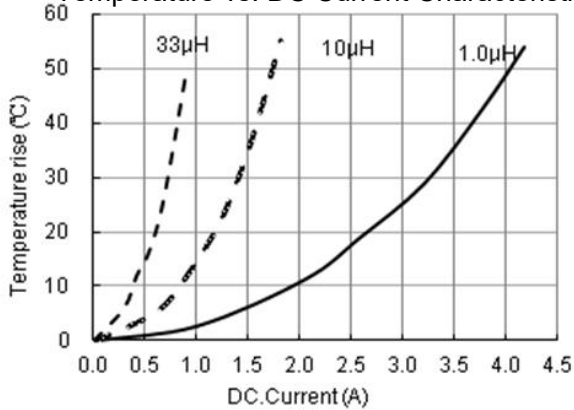
Inductance vs. DC Current Characteristics



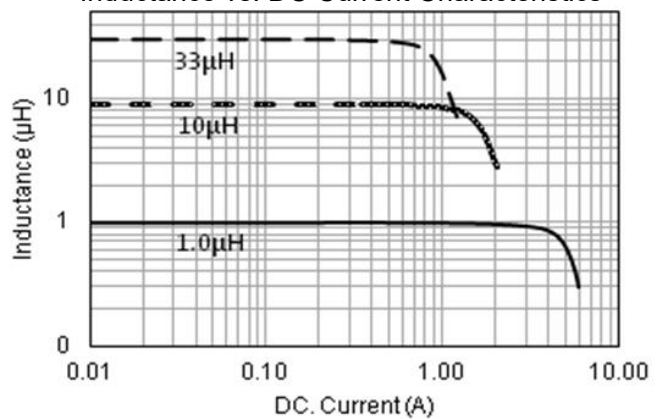
TYPICAL ELECTRICAL CHARACTERISTICS

KNR4018 Series

Temperature vs. DC Current Characteristics

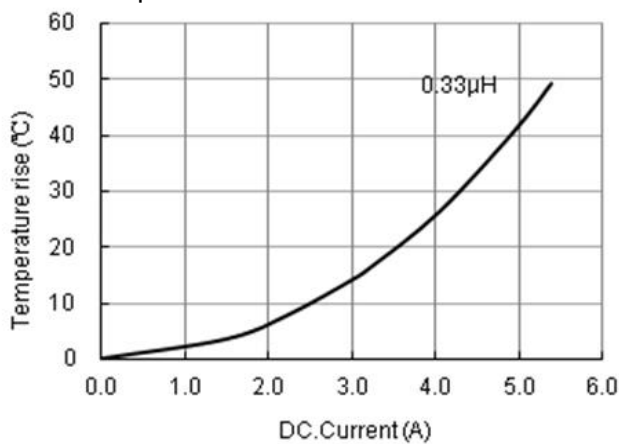


Inductance vs. DC Current Characteristics

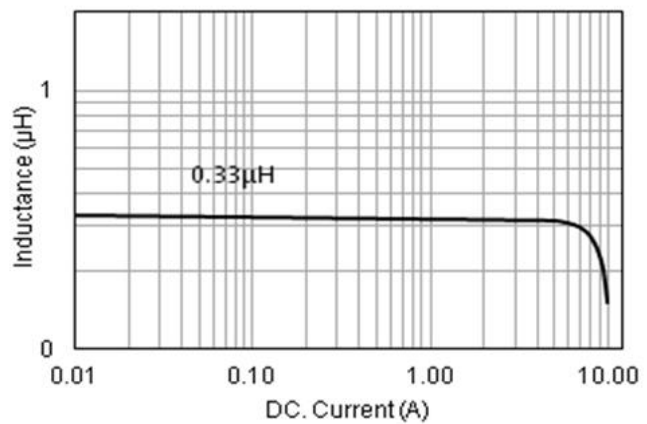


KNR4020 Series

Temperature vs. DC Current Characteristics

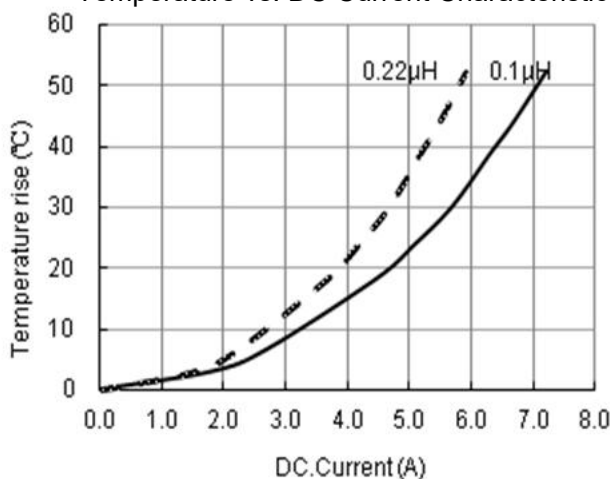


Inductance vs. DC Current Characteristics

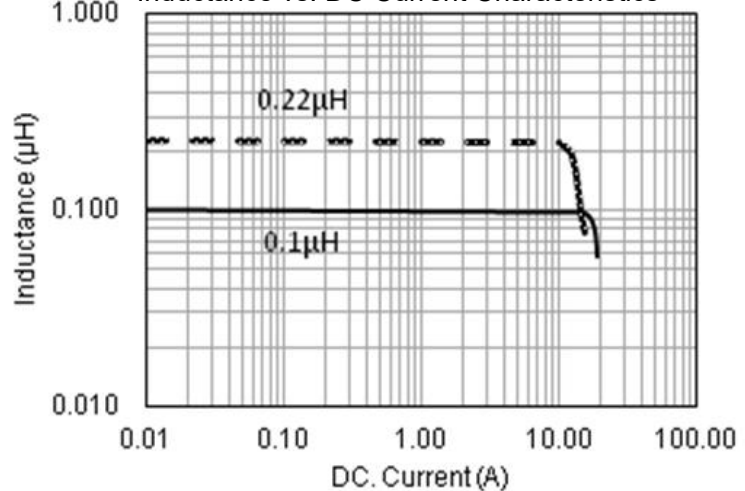


KNR4030 Series

Temperature vs. DC Current Characteristics



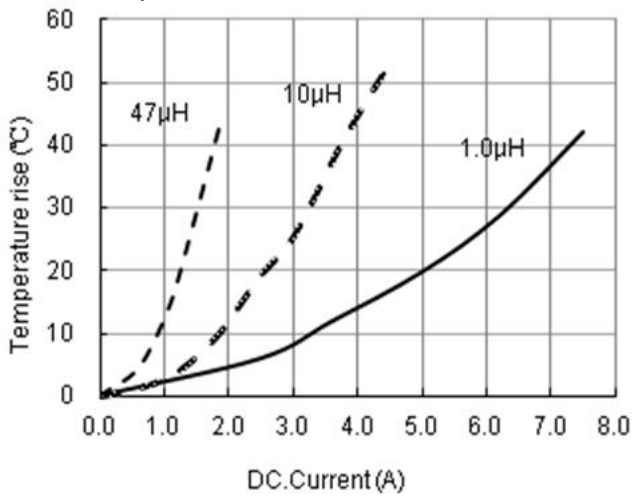
Inductance vs. DC Current Characteristics



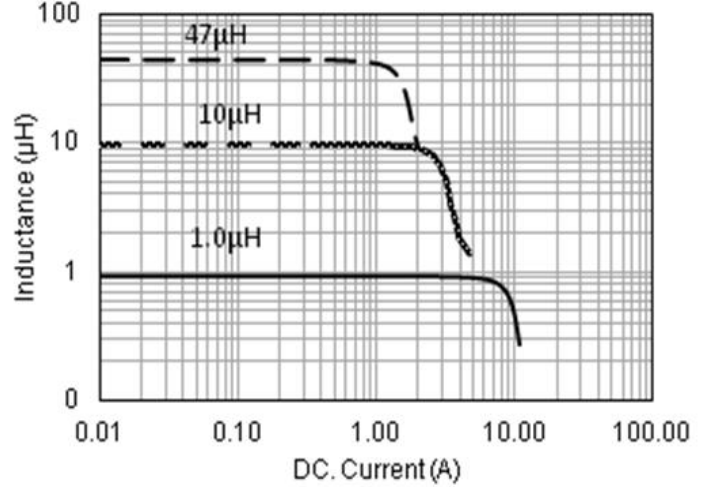
TYPICAL ELECTRICAL CHARACTERISTICS

KNR8030 Series

Temperature vs. DC Current Characteristics

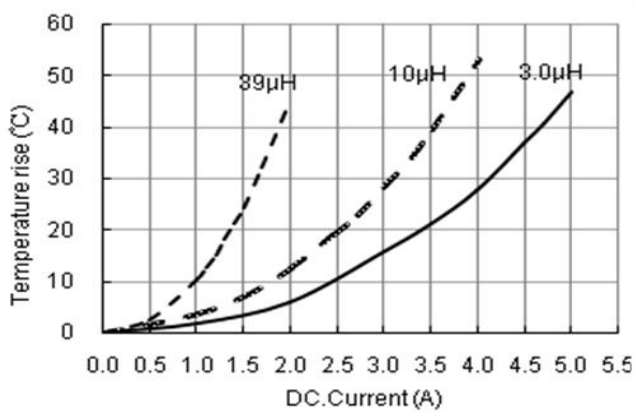


Inductance vs. DC Current Characteristics



KNR8040 Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

