



Magnetic Resin Power Inductors-NR Series



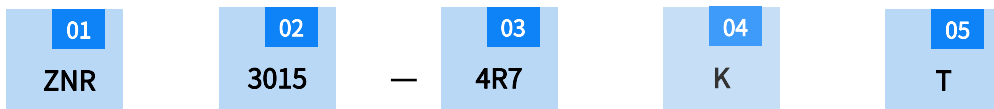
FEATURES

- ROHS, Halogen free and REACH Compliance.
- Magnetic-resin shielded structure, ultra low buzz noise, Shielded and miniature package design.
- Constructure Low RDC and high rate current.
- Its rate current could be increased up to 30% compare to ferrite base power inductor.

APPLICATIONS

- Smartphones, tablets and wearable devices,DC-DC converter, mobile phone, PDA, LED lighting.

PRODUCT IDENTIFICATION



01 Type	
ZNR	Magnetic Resin Power Inductor

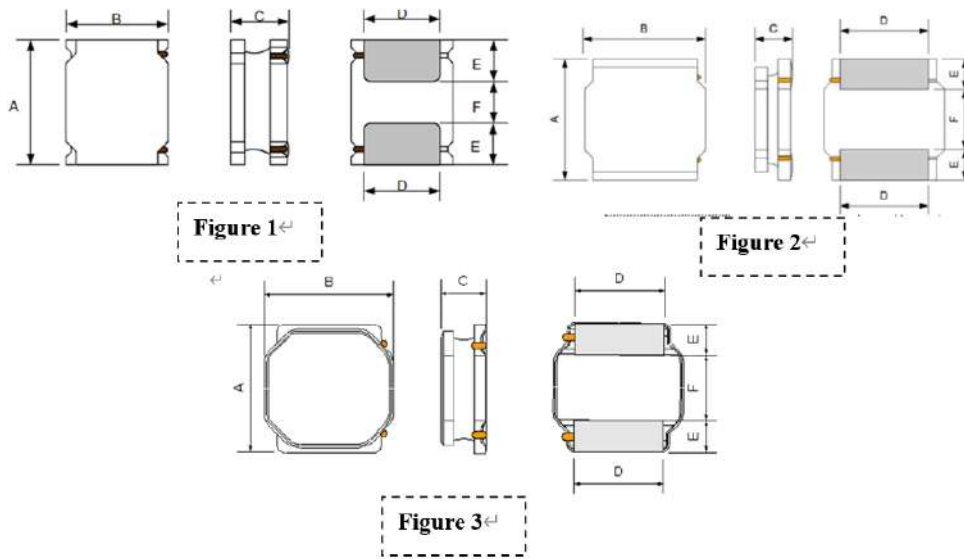
02 External Dimensions (LxH)(mm)	
252010	2.5x 1.0
252012	2.5x 1.2
3010	3.0x 1.0
3012	3.0x 1.2
3015	3.0x 1.5
4010	4.0x 1.0
4012	4.0x 1.2
4018	4.0x 1.8
4020	4.0x 2.0
4026	4.0x 2.6
4030	4.0x 3.0
5012	5.0x 1.2
5020	5.0x 2.0
5040	5.0x 4.0
6020	6.0x 2.0
6028	6.0x 2.8
6040	6.0x 4.0
6045	6.0x 4.5
8040	8.0x 4.0

03 Nominal Inductance	
Example	Nominal value
4R7	4.7uH
470	47uH
471	470uH

04 Tolerance	
J	±5%
K	±10%
M	±20%
N	±30%

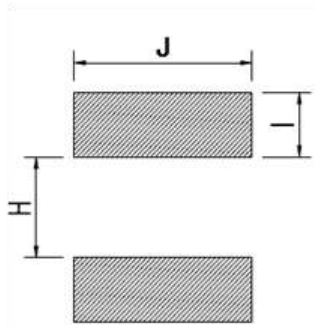
05 Packing	
T	Tape & Reel

SHAPE AND DIMENSIONS



Part Number	Dimensions(mm)						Fig
	A	B	C	D	E	F	
ZNR252010	2.5±0.1	2.0±0.1	1.0Max	1.5±0.2	0.80±0.2	0.80±0.2	1
ZNR252012	2.5±0.1	2.0±0.1	1.2Max	1.5±0.2	0.80±0.2	0.80±0.2	1
ZNR3010	3.0±0.2	3.0±0.2	1.0max	2.5±0.2	0.75±0.2	1.5±0.2	2
ZNR3012	3.0±0.2	3.0±0.2	1.2max	2.5±0.2	0.75±0.2	1.5±0.2	2
ZNR3015	3.0±0.2	3.0±0.2	1.5max	2.5±0.2	0.75±0.2	1.5±0.2	2
ZNR4010	4.0±0.2	4.0±0.2	1.0max	3.3±0.2	0.95±0.2	2.1±0.2	2
ZNR4012	4.0±0.2	4.0±0.2	1.2max	3.3±0.2	0.95±0.2	2.1±0.2	2
ZNR4018	4.0±0.2	4.0±0.2	1.8max	3.3±0.2	0.95±0.2	2.1±0.2	2
ZNR4020	4.0±0.2	4.0±0.2	2.0max	3.3±0.2	0.95±0.2	2.1±0.2	2
ZNR4026	4.0±0.2	4.0±0.2	2.6max	3.3±0.2	0.95±0.2	2.1±0.2	2
ZNR4030	4.0±0.2	4.0±0.2	3.0max	3.3±0.2	0.95±0.2	2.1±0.2	2
ZNR5012	5.0±0.2	5.0±0.2	1.2max	4.0±0.2	1.25±0.2	2.5±0.2	3
ZNR5020	5.0±0.2	5.0±0.2	2.0max	4.0±0.2	1.25±0.2	2.5±0.2	3
ZNR5040	5.0±0.2	5.0±0.2	4.0max	4.0±0.2	1.25±0.2	2.5±0.2	3
ZNR6020	6.0±0.2	6.0±0.2	2.0max	4.9±0.2	1.55±0.2	2.9±0.2	2
ZNR6028	6.0±0.2	6.0±0.2	2.8max	4.9±0.2	1.55±0.2	2.9±0.2	2
ZNR6040	6.0±0.2	6.0±0.2	4.0max	4.9±0.2	1.55±0.2	2.9±0.2	2
ZNR6045	6.0±0.2	6.0±0.2	4.5max	4.9±0.2	1.55±0.2	2.9±0.2	2
ZNR8040	8.0±0.2	8.0±0.2	4.2max	6.3±0.2	2.0±0.2	4.0±0.2	2

RECOMMENDED PC BOARD PATTERN



Part Number	Dimensions(mm)		
	H	I	J
ZNR252010	0.80	0.85	2.0
ZNR252012	0.80	0.85	2.0
ZNR3010	1.5	0.8	2.7
ZNR3012	1.5	0.8	2.7
ZNR3015	1.5	0.8	2.7
ZNR4010	1.9	1.1	3.7
ZNR4012	1.9	1.1	3.7
ZNR4018	1.9	1.1	3.7
ZNR4020	1.9	1.1	3.7
ZNR4026	1.9	1.1	3.7
ZNR4030	1.9	1.1	3.7
ZNR5012	2.3	1.4	4.2
ZNR5020	2.3	1.4	4.2
ZNR5040	2.3	1.4	4.2
ZNR6020	2.8	1.7	5.7
ZNR6028	2.8	1.7	5.7
ZNR6040	2.8	1.7	5.7
ZNR6045	2.8	1.7	5.7
ZNR8040	3.8	2.2	7.5

SPECIFICATIONS

● ZNR252010 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR252010-R47	0.47	N	100/0.25	0.056	2500	2350
ZNR252010-R56	0.56	N	100/0.25	0.072	2900	2000
ZNR252010-R68	0.68	N	100/0.25	0.074	2200	2000
ZNR252010-1R0	1.0	N	100/0.25	0.108	1850	1650
ZNR252010-1R5	1.5	M、N	100/0.25	0.182	1800	1300
ZNR252010-2R2	2.2	M、N	100/0.25	0.209	1200	1200
ZNR252010-3R3	3.3	M、N	100/0.25	0.328	1050	900
ZNR252010-4R7	4.7	M、N	100/0.25	0.563	950	730
ZNR252010-5R6	5.6	M、N	100/0.25	0.563	800	700
ZNR252010-6R8	6.8	M、N	100/0.25	0.896	780	560
ZNR252010-100	10	M、N	100/0.25	1.092	650	500

Note: When ordering, please specify tolerance code. Tolerance: K: $\pm 10\%$ 、M: $\pm 20\%$ 、N: $\pm 30\%$;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● ZNR252012 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR252012-R47	0.47	N	100/0.25	0.061	3820	2340
ZNR252012-R68	0.68	N	100/0.25	0.074	3280	2130
ZNR252012-1R0	1.0	N	100/0.25	0.090	2590	2100
ZNR252012-1R2	1.2	M、N	100/0.25	0.129	2380	1590
ZNR252012-1R5	1.5	M、N	100/0.25	0.147	2240	1530
ZNR252012-2R2	2.2	M、N	100/0.25	0.216	1850	1250
ZNR252012-2R7	2.7	M、N	100/0.25	0.239	1720	1190
ZNR252012-3R3	3.3	M、N	100/0.25	0.264	1610	1130
ZNR252012-3R6	3.6	M、N	100/0.25	0.348	1460	980
ZNR252012-4R3	4.3	M、N	100/0.25	0.377	1370	950
ZNR252012-4R7	4.7	M、N	100/0.25	0.377	1120	920



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Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR252012-5R1	5.1	M、N	100/0.25	0.500	1230	820
ZNR252012-5R6	5.6	M、N	100/0.25	0.538	1110	800
ZNR252012-6R2	6.2	M、N	100/0.25	0.542	1030	800
ZNR252012-6R8	6.8	M、N	100/0.25	0.581	980	750
ZNR252012-7R5	7.5	M、N	100/0.25	0.611	970	740
ZNR252012-8R2	8.2	M、N	100/0.25	0.658	980	710
ZNR252012-9R1	9.1	M、N	100/0.25	0.690	910	680
ZNR252012-100	10	M、N	100/0.25	0.690	790	680
ZNR252012-120	12	M、N	100/0.25	1.075	780	560
ZNR252012-150	15	M、N	100/0.25	1.591	68	460
ZNR252012-220	22	M、N	100/0.25	1.976	53	410

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● ZNR3010 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR3010-1R0	1.0	M、N	100/0.25	0.085	1450	1400
ZNR3010-1R2	1.2	M、N	100/0.25	0.085	1450	1250
ZNR3010-1R5	1.5	M、N	100/0.25	0.104	1300	1270
ZNR3010-2R2	2.2	M、N	100/0.25	0.143	1090	1150
ZNR3010-2R7	2.7	M、N	100/0.25	0.169	1020	1000
ZNR3010-3R3	3.3	M、N	100/0.25	0.189	960	970
ZNR3010-3R6	3.6	M、N	100/0.25	0.215	900	950
ZNR3010-4R7	4.7	M、N	100/0.25	0.293	770	750
ZNR3010-5R6	5.6	M、N	100/0.25	0.322	700	580
ZNR3010-6R8	6.8	M、N	100/0.25	0.397	660	550
ZNR3010-8R2	8.2	M、N	100/0.25	0.520	580	550
ZNR3010-100	10	M、N	100/0.25	0.520	580	550
ZNR3010-120	12	M、N	100/0.25	0.657	520	430



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Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR3010-150	15	M、N	100/0.25	0.793	470	420
ZNR3010-220	22	M、N	100/0.25	1.209	380	350
ZNR3010-270	27	M、N	100/0.25	1.404	350	300
ZNR3010-330	33	M、N	100/0.25	2.015	300	290
ZNR3010-390	39	M、N	100/0.25	2.275	280	280
ZNR3010-430	43	M、N	100/0.25	2.340	270	230
ZNR3010-470	47	M、N	100/0.25	2.535	260	220
ZNR3010-510	51	M、N	100/0.25	2.860	250	210
ZNR3010-560	56	M、N	100/0.25	3.106	240	210

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● **ZNR3012 TYPE**

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR3012-R22	0.22	N	100/0.25	0.022	5300	3000
ZNR3012-R82	0.82	N	100/0.25	0.039	2470	2050
ZNR3012-1R0	1.0	N	100/0.25	0.052	2200	1870
ZNR3012-1R2	1.2	N	100/0.25	0.059	2220	2010
ZNR3012-1R5	1.5	N	100/0.25	0.059	2010	1620
ZNR3012-1R8	1.8	M、N	100/0.25	0.082	1650	1300
ZNR3012-2R2	2.2	M、N	100/0.25	0.098	1550	1200
ZNR3012-2R4	2.4	M、N	100/0.25	0.088	1600	1150
ZNR3012-2R7	2.7	M、N	100/0.25	0.110	1480	1140
ZNR3012-3R3	3.3	M、N	100/0.25	0.130	1360	1050
ZNR3012-3R6	3.6	M、N	100/0.25	0.130	1360	1050
ZNR3012-3R9	3.9	M、N	100/0.25	0.189	1240	1000
ZNR3012-4R7	4.7	M、N	100/0.25	0.156	1240	900
ZNR3012-5R6	5.6	M、N	100/0.25	0.226	1130	800
ZNR3012-6R8	6.8	M、N	100/0.25	0.247	980	750



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Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR3012-100	10	M、N	100/0.25	0.345	830	600
ZNR3012-120	12	M、N	100/0.25	0.449	730	480
ZNR3012-150	15	M、N	100/0.25	0.468	710	450
ZNR3012-180	18	M、N	100/0.25	0.709	580	430
ZNR3012-220	22	M、N	100/0.25	0.839	530	420
ZNR3012-270	27	M、N	100/0.25	1.131	470	350
ZNR3012-330	33	M、N	100/0.25	1.138	460	360
ZNR3012-360	36	M、N	100/0.25	1.235	440	340
ZNR3012-390	39	M、N	100/0.25	1.729	370	300
ZNR3012-470	47	M、N	100/0.25	1.885	350	270
ZNR3012-560	56	M、N	100/0.25	1.994	340	260
ZNR3012-680	68	M、N	100/0.25	2.171	330	240
ZNR3012-820	82	M、N	100/0.25	3.302	270	220
ZNR3012-101	100	M、N	100/0.25	3.718	250	210

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%, N: ±30%;
 1. Operating temperature range -40 -125°C
 2. Isat for Inductance drop 30% from its value without current

● ZNR3015 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR3015-R50	0.50	N	100/0.25	0.039	3900	2600
ZNR3015-1R0	1.0	N	100/0.25	0.039	2320	2350
ZNR3015-1R2	1.2	N	100/0.25	0.052	2210	1950
ZNR3015-1R5	1.5	N	100/0.25	0.065	2300	1700
ZNR3015-1R8	1.8	N	100/0.25	0.065	1750	1700
ZNR3015-2R2	2.2	M、N	100/0.25	0.078	1600	1600
ZNR3015-2R7	2.7	M、N	100/0.25	0.098	1520	1460
ZNR3015-3R3	3.3	M、N	100/0.25	0.104	1320	1360
ZNR3015-3R6	3.6	M、N	100/0.25	0.137	1280	1200
ZNR3015-3R9	3.9	M、N	100/0.25	0.137	1200	1200
ZNR3015-4R3	4.3	M、N	100/0.25	0.150	1200	1140



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Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR3015-4R7	4.7	M、N	100/0.25	0.163	1100	1090
ZNR3015-5R1	5.1	M、N	100/0.25	0.173	1000	1050
ZNR3015-6R2	6.2	M、N	100/0.25	0.254	1000	860
ZNR3015-6R8	6.8	M、N	100/0.25	0.260	850	850
ZNR3015-100	10	M、N	100/0.25	0.325	720	770
ZNR3015-120	12	M、N	100/0.25	0.416	700	680
ZNR3015-150	15	M、N	100/0.25	0.455	660	650
ZNR3015-180	18	M、N	100/0.25	0.559	560	590
ZNR3015-220	22	M、N	100/0.25	0.589	520	570
ZNR3015-270	27	M、N	100/0.25	0.949	480	450
ZNR3015-330	33	M、N	100/0.25	1.066	440	430
ZNR3015-390	39	M、N	100/0.25	1.294	410	390
ZNR3015-430	43	M、N	100/0.25	1.378	370	370
ZNR3015-470	47	M、N	100/0.25	1.625	350	350
ZNR3015-560	56	M、N	100/0.25	1.664	330	340
ZNR3015-620	62	M、N	100/0.25	2.093	300	300
ZNR3015-680	68	M、N	100/0.25	3.510	280	230
ZNR3015-101	100	M、N	100/0.25	4.043	230	210
ZNR3015-151	150	M、N	100/0.25	4.940	180	190

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● ZNR4010 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4010-1R0	1.0	N	100/0.25	0.067	2000	1900
ZNR4010-1R5	1.5	N	100/0.25	0.084	1680	1700
ZNR4010-2R2	2.2	M、N	100/0.25	0.102	1200	1500
ZNR4010-3R3	3.3	M、N	100/0.25	0.120	1100	1400
ZNR4010-4R7	4.7	M、N	100/0.25	0.168	950	1200



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Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4010-6R8	6.8	M、N	100/0.25	0.240	800	1000
ZNR4010-100	10	M、N	100/0.25	0.360	620	750
ZNR4010-150	15	M、N	100/0.25	0.516	540	600
ZNR4010-220	22	M、N	100/0.25	0.684	450	500

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%, N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● **ZNR4012 TYPE**

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4012-R82	0.82	N	100/0.25	0.065	3020	1650
ZNR4012-1R0	1.0	N	100/0.25	0.065	2610	1650
ZNR4012-1R5	1.5	N	100/0.25	0.085	2100	1460
ZNR4012-1R8	1.8	N	100/0.25	0.104	2120	1320
ZNR4012-2R2	2.2	N	100/0.25	0.104	1760	1320
ZNR4012-2R7	2.7	N	100/0.25	0.117	1900	1250
ZNR4012-3R3	3.3	N	100/0.25	0.143	1720	1120
ZNR4012-3R6	3.6	M、N	100/0.25	0.143	1300	1080
ZNR4012-4R3	4.3	M、N	100/0.25	0.182	1280	1000
ZNR4012-4R7	4.7	M、N	100/0.25	0.163	1150	1050
ZNR4012-5R1	5.1	M、N	100/0.25	0.201	1050	950
ZNR4012-5R6	5.6	M、N	100/0.25	0.182	1000	1000
ZNR4012-6R8	6.8	M、N	100/0.25	0.257	850	840
ZNR4012-100	10	M、N	100/0.25	0.345	800	770
ZNR4012-120	12	M、N	100/0.25	0.377	660	700
ZNR4012-150	15	M、N	100/0.25	0.442	560	640
ZNR4012-220	22	M、N	100/0.25	0.653	530	570
ZNR4012-270	27	M、N	100/0.25	0.936	500	450
ZNR4012-330	33	M、N	100/0.25	1.053	420	420
ZNR4012-360	36	M、N	100/0.25	1.170	400	400



Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4012-390	39	M、N	100/0.25	1.430	550	370
ZNR4012-470	47	M、N	100/0.25	1.430	350	370
ZNR4012-560	56	M、N	100/0.25	1.625	330	330
ZNR4012-680	68	M、N	100/0.25	2.535	380	270
ZNR4012-820	82	M、N	100/0.25	2.782	280	260
ZNR4012-101	100	M、N	100/0.25	2.783	250	250

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%, N: ±30%;
 1. Operating temperature range -40 -125°C
 2. Isat for Inductance drop 30% from its value without current

● ZNR4018 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4018-R68	0.68	N	100/0.25	0.026	4900	3300
ZNR4018-1R0	1.0	N	100/0.25	0.033	4800	2000
ZNR4018-1R5	1.5	N	100/0.25	0.039	3350	1800
ZNR4018-1R8	1.8	N	100/0.25	0.044	3000	1700
ZNR4018-2R2	2.2	N	100/0.25	0.059	2700	1650
ZNR4018-3R3	3.3	N	100/0.25	0.091	2450	1230
ZNR4018-4R7	4.7	M、N	100/0.25	0.117	1700	1200
ZNR4018-6R8	6.8	M、N	100/0.25	0.143	1450	1060
ZNR4018-100	10	M、N	100/0.25	0.234	1300	840
ZNR4018-150	15	M、N	100/0.25	0.325	940	650
ZNR4018-220	22	M、N	100/0.25	0.468	800	590
ZNR4018-270	27	M、N	100/0.25	0.611	470	520
ZNR4018-330	33	M、N	100/0.25	0.689	560	490
ZNR4018-470	47	M、N	100/0.25	0.845	570	420
ZNR4018-680	68	M、N	100/0.25	1.300	470	320
ZNR4018-101	100	M、N	100/0.25	2.275	400	250
ZNR4018-151	150	M、N	100/0.25	3.250	310	220
ZNR4018-221	220	M、N	100/0.25	5.200	270	170



● ZNR4020 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4020-R47	0.47	N	100/0.25	0.029	7000	3300
ZNR4020-R68	0.68	N	100/0.25	0.036	6400	2800
ZNR4020-1R0	1.0	N	100/0.25	0.038	4780	2150
ZNR4020-1R2	1.2	N	100/0.25	0.038	5100	1080
ZNR4020-1R5	1.5	N	100/0.25	0.046	4450	1980
ZNR4020-2R2	2.2	N	100/0.25	0.052	3400	1850
ZNR4020-3R3	3.3	M、N	100/0.25	0.091	3200	1600
ZNR4020-3R6	3.6	M、N	100/0.25	0.072	2800	1540
ZNR4020-4R7	4.7	M、N	100/0.25	0.098	2350	1340
ZNR4020-5R6	5.6	M、N	100/0.25	0.117	2200	1220
ZNR4020-6R2	6.2	M、N	100/0.25	0.150	2150	1080
ZNR4020-6R8	6.8	M、N	100/0.25	0.163	1900	1040
ZNR4020-7R5	7.5	M、N	100/0.25	0.150	1850	1080
ZNR4020-8R2	8.2	M、N	100/0.25	0.163	1750	1040
ZNR4020-100	10	M、N	100/0.25	0.215	1600	900
ZNR4020-120	12	M、N	100/0.25	0.228	1500	880
ZNR4020-220	22	M、N	100/0.25	0.455	1050	620
ZNR4020-270	27	M、N	100/0.25	0.709	1020	500
ZNR4020-330	33	M、N	100/0.25	0.715	850	490
ZNR4020-390	39	M、N	100/0.25	0.845	820	460
ZNR4020-430	43	M、N	100/0.25	0.858	770	450
ZNR4020-470	47	M、N	100/0.25	0.923	740	440
ZNR4020-510	51	M、N	100/0.25	0.975	700	420
ZNR4020-560	56	M、N	100/0.25	1.040	660	410
ZNR4020-620	62	M、N	100/0.25	1.170	650	390
ZNR4020-680	68	M、N	100/0.25	1.380	610	360
ZNR4020-750	75	M、N	100/0.25	1.510	700	350
ZNR4020-820	82	M、N	100/0.25	1.520	500	340
ZNR4020-101	100	M、N	100/0.25	2.020	480	310



● ZNR4026 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4026-1R0	1.0	N	100/0.25	0.031	3300	3000
ZNR4026-1R2	1.2	N	100/0.25	0.039	3100	2300
ZNR4026-1R5	1.5	N	100/0.25	0.039	2400	2300
ZNR4026-2R2	2.2	N	100/0.25	0.052	2100	200
ZNR4026-3R3	3.3	M、N	100/0.25	0.065	1800	1700
ZNR4026-4R7	4.7	M、N	100/0.25	0.072	1450	1600
ZNR4026-6R8	6.8	M、N	100/0.25	0.085	1300	1500
ZNR4026-100	10	M、N	100/0.25	0.110	1000	1300
ZNR4026-150	15	M、N	100/0.25	0.143	900	1100
ZNR4026-220	22	M、N	100/0.25	0.214	600	900
ZNR4026-330	33	M、N	100/0.25	0.351	550	700
ZNR4026-470	47	M、N	100/0.25	0.390	400	650

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%, N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● ZNR4030 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4030-R68	0.68	N	100/0.25	0.013	6800	4560
ZNR4030-R91	0.91	N	100/0.25	0.017	6250	4150
ZNR4030-1R0	1.0	N	100/0.25	0.018	5260	4150
ZNR4030-1R2	1.2	N	100/0.25	0.020	5800	3820
ZNR4030-1R5	1.5	M、N	100/0.25	0.026	4840	3340
ZNR4030-1R8	1.8	M、N	100/0.25	0.033	4400	3200
ZNR4030-2R2	2.2	M、N	100/0.25	0.039	3900	2950
ZNR4030-3R3	3.3	M、N	100/0.25	0.052	3300	2400
ZNR4030-3R6	3.6	M、N	100/0.25	0.052	3000	2400
ZNR4030-3R9	3.9	M、N	100/0.25	0.064	3000	2100



● ZNR4030 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR4030-4R7	4.7	M、N	100/0.25	0.078	2900	2000
ZNR4030-5R6	5.6	M、N	100/0.25	0.085	2600	1950
ZNR4030-6R8	6.8	M、N	100/0.25	0.097	2750	1600
ZNR4030-7R5	7.5	M、N	100/0.25	0.110	2200	1650
ZNR4030-8R2	8.2	M、N	100/0.25	0.117	2100	1600
ZNR4030-100	10	M、N	100/0.25	0.130	1950	1500
ZNR4030-120	12	M、N	100/0.25	0.175	1700	1300
ZNR4030-150	15	M、N	100/0.25	0.247	1650	1110
ZNR4030-180	18	M、N	100/0.25	0.260	1400	1100
ZNR4030-220	22	M、N	100/0.25	0.292	1300	1000
ZNR4030-270	27	M、N	100/0.25	0.338	1150	900
ZNR4030-330	33	M、N	100/0.25	0.429	1100	840
ZNR4030-360	36	M、N	100/0.25	0.436	1050	830
ZNR4030-390	39	M、N	100/0.25	0.566	1030	730
ZNR4030-470	47	M、N	100/0.25	0.579	950	720
ZNR4030-560	56	M、N	100/0.25	0.722	850	650
ZNR4030-680	68	M、N	100/0.25	1.128	720	520
ZNR4030-820	82	M、N	100/0.25	1.378	660	470
ZNR4030-910	91	M、N	100/0.25	1.430	650	460
ZNR4030-101	100	M、N	100/0.25	1.495	600	450
ZNR4030-121	120	M、N	100/0.25	1.755	550	420
ZNR4030-151	150	M、N	100/0.25	2.340	500	300
ZNR4030-221	220	M、N	100/0.25	3.250	400	350
ZNR4030-331	330	M、N	100/0.25	5.200	300	250
ZNR4030-471	470	M、N	100/0.25	9.027	300	200
ZNR4030-501	500	M、N	100/0.25	9.360	280	150
ZNR4030-681	680	M、N	100/0.25	9.854	190	140

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current



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● ZNR5012 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR5012-R22	0.22	N	100/0.25	0.078	2900	2000
ZNR5012-1R0	1.0	N	100/0.25	0.085	2600	1950
ZNR5012-1R5	1.5	M、N	100/0.25	0.097	2750	1600
ZNR5012-2R2	2.2	M、N	100/0.25	0.110	2200	1650
ZNR5012-3R3	3.3	M、N	100/0.25	0.117	2100	1600
ZNR5012-4R7	4.7	M、N	100/0.25	0.130	1950	1500
ZNR5012-6R8	6.8	M、N	100/0.25	0.175	1700	1300
ZNR5012-100	10	M、N	100/0.25	0.247	1650	1110
ZNR5012-150	15	M、N	100/0.25	0.260	1400	1100
ZNR5012-220	22	M、N	100/0.25	0.292	1300	1000

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● ZNR5020 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR5020-R22	0.22	N	100/0.25	0.011	9000	5300
ZNR5020-R47	0.47	N	100/0.25	0.017	6150	4600
ZNR5020-R56	0.56	N	100/0.25	0.022	5700	4000
ZNR5020-R68	0.68	N	100/0.25	0.022	5500	4000
ZNR5020-R75	0.75	N	100/0.25	0.022	5500	4000
ZNR5020-1R0	1.0	N	100/0.25	0.026	4100	3800
ZNR5020-1R2	1.2	N	100/0.25	0.029	4500	3550
ZNR5020-1R5	1.5	M、N	100/0.25	0.034	4100	3200
ZNR5020-2R2	2.2	M、N	100/0.25	0.042	3200	2900
ZNR5020-2R7	2.7	M、N	100/0.25	0.049	2900	2700
ZNR5020-3R0	3.0	M、N	100/0.25	0.049	2550	2700
ZNR5020-3R3	3.3	M、N	100/0.25	0.056	2550	2500
ZNR5020-3R6	3.6	M、N	100/0.25	0.056	2800	2500



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● ZNR5020 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR5020-3R9	3.9	M、N	100/0.25	0.056	2300	2500
ZNR5020-4R3	4.3	M、N	100/0.25	0.074	2500	2200
ZNR5020-4R7	4.7	M、N	100/0.25	0.074	2500	2200
ZNR5020-5R1	5.1	M、N	100/0.25	0.083	2250	2050
ZNR5020-5R6	5.6	M、N	100/0.25	0.083	2300	2050
ZNR5020-6R8	6.8	M、N	100/0.25	0.108	2050	1800
ZNR5020-7R5	7.5	M、N	100/0.25	0.117	1850	1750
ZNR5020-8R2	8.2	M、N	100/0.25	0.127	1850	1650
ZNR5020-9R1	9.1	M、N	100/0.25	0.143	1700	1550
ZNR5020-100	10	M、N	100/0.25	0.143	1700	1550
ZNR5020-120	12	M、N	100/0.25	0.182	1500	1400
ZNR5020-150	15	M、N	100/0.25	0.215	1350	1250
ZNR5020-180	18	M、N	100/0.25	0.260	1250	1150
ZNR5020-220	22	M、N	100/0.25	0.294	1150	1100
ZNR5020-330	33	M、N	100/0.25	0.507	920	900
ZNR5020-470	47	M、N	100/0.25	0.680	770	770
ZNR5020-560	56	M、N	100/0.25	0.819	770	700
ZNR5020-680	68	M、N	100/0.25	0.962	650	640
ZNR5020-820	82	M、N	100/0.25	1.158	650	500
ZNR5020-101	100	M、N	100/0.25	1.430	530	530
ZNR5020-121	120	M、N	100/0.25	1.755	420	400
ZNR5020-201	200	M、N	100/0.25	2.600	300	400

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current



● ZNR5040 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR5040-1R0	1.0	M、N	100/0.25	0.016	7350	4900
ZNR5040-1R2	1.2	M、N	100/0.25	0.020	6500	4300
ZNR5040-1R5	1.5	M、N	100/0.25	0.021	6300	4150
ZNR5040-1R8	1.8	M、N	100/0.25	0.021	5500	4150
ZNR5040-2R2	2.2	M、N	100/0.25	0.025	4900	3800
ZNR5040-2R7	2.7	M、N	100/0.25	0.029	4300	3600
ZNR5040-3R0	3.0	M、N	100/0.25	0.029	4150	3600
ZNR5040-3R3	3.3	M、N	100/0.25	0.031	3950	3400
ZNR5040-3R6	3.6	M、N	100/0.25	0.034	3800	3300
ZNR5040-3R9	3.9	M、N	100/0.25	0.035	3550	3200
ZNR5040-4R7	4.7	M、N	100/0.25	0.039	3500	3000
ZNR5040-5R6	5.6	M、N	100/0.25	0.046	3000	2800
ZNR5040-6R8	6.8	M、N	100/0.25	0.056	2900	2500
ZNR5040-8R2	8.2	M、N	100/0.25	0.062	2700	2300
ZNR5040-100	10	M、N	100/0.25	0.083	2350	2100
ZNR5040-150	15	M、N	100/0.25	0.112	2000	2000
ZNR5040-220	22	M、N	100/0.25	0.168	1600	1500
ZNR5040-330	33	M、N	100/0.25	0.244	1300	1200
ZNR5040-470	47	M、N	100/0.25	0.354	1100	1000
ZNR5040-670	68	M、N	100/0.25	0.520	900	800
ZNR5040-101	100	M、N	100/0.25	0.728	750	700
ZNR5040-151	150	M、N	100/0.25	0.975	650	600
ZNR5040-101	1000	K、M	100/0.25	7.800	210	200

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current



● ZNR6020 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR6020-R50	0.50	M、N	100/0.25	0.018	4500	4000
ZNR6020-R68	0.68	M、N	100/0.25	0.022	6550	3800
ZNR6020-R82	0.82	M、N	100/0.25	0.022	5300	3800
ZNR6020-1R0	1.0	M、N	100/0.25	0.024	4150	3500
ZNR6020-1R2	1.2	M、N	100/0.25	0.029	55900	3200
ZNR6020-1R5	1.5	M、N	100/0.25	0.029	4250	3200
ZNR6020-1R8	1.8	M、N	100/0.25	0.036	4850	2750
ZNR6020-2R0	2.0	M、N	100/0.25	0.036	4100	2650
ZNR6020-2R2	2.2	M、N	100/0.25	0.036	3750	2600
ZNR6020-2R7	2.7	M、N	100/0.25	0.046	3900	2600
ZNR6020-3R3	3.3	M、N	100/0.25	0.046	3150	2600
ZNR6020-3R9	3.9	M、N	100/0.25	0.064	3250	2100
ZNR6020-4R3	4.3	M、N	100/0.25	0.064	2700	2100
ZNR6020-4R7	4.7	M、N	100/0.25	0.075	3000	2000
ZNR6020-5R6	5.6	M、N	100/0.25	0.075	2400	1900
ZNR6020-6R2	6.2	M、N	100/0.25	0.103	2300	1800
ZNR6020-6R8	6.8	M、N	100/0.25	0.103	2200	1800
ZNR6020-8R2	8.2	M、N	100/0.25	0.137	2100	1400
ZNR6020-100	10	M、N	100/0.25	0.137	1750	1400
ZNR6020-120	12	M、N	100/0.25	0.156	1450	1300
ZNR6020-150	15	M、N	100/0.25	0.189	1200	1200
ZNR6020-180	18	M、N	100/0.25	0.234	1200	1080
ZNR6020-220	22	M、N	100/0.25	0.265	1050	1000
ZNR6020-330	33	M、N	100/0.25	0.390	950	840
ZNR6020-470	47	M、N	100/0.25	0.559	800	700
ZNR6020-331	330	M、N	100/0.25	3.419	330	270

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%, N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current



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● ZNR6028 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR6028-R82	0.82	M、N	100/0.25	0.016	6500	5200
ZNR6028-1R0	1.0	M、N	100/0.25	0.017	5750	5200
ZNR6028-1R2	1.2	M、N	100/0.25	0.017	6400	4580
ZNR6028-1R5	1.5	M、N	100/0.25	0.017	6000	4580
ZNR6028-2R2	2.2	M、N	100/0.25	0.026	5100	3750
ZNR6028-2R7	2.7	M、N	100/0.25	0.026	3800	3750
ZNR6028-3R3	3.3	M、N	100/0.25	0.033	4150	3480
ZNR6028-4R7	4.7	M、N	100/0.25	0.039	3000	3080
ZNR6028-5R1	5.1	M、N	100/0.25	0.056	3200	2600
ZNR6028-6R2	6.2	M、N	100/0.25	0.061	3050	2400
ZNR6028-6R8	6.8	M、N	100/0.25	0.061	2600	2400
ZNR6028-8R2	8.2	M、N	100/0.25	0.072	2300	2250
ZNR6028-100	10	M、N	100/0.25	0.094	2040	1950
ZNR6028-120	12	M、N	100/0.25	0.104	1800	1850
ZNR6028-150	15	M、N	100/0.25	0.163	1750	1450
ZNR6028-180	18	M、N	100/0.25	0.156	1520	1450
ZNR6028-220	22	M、N	100/0.25	0.182	1450	1400
ZNR6028-270	27	M、N	100/0.25	0.202	1500	1320
ZNR6028-330	33	M、N	100/0.25	0.241	1350	1220
ZNR6028-360	36	M、N	100/0.25	0.280	1250	1130
ZNR6028-390	39	M、N	100/0.25	0.293	1250	1100
ZNR6028-470	47	M、N	100/0.25	0.410	1150	1060
ZNR6028-560	56	M、N	100/0.25	0.449	1050	890
ZNR6028-680	68	M、N	100/0.25	0.468	800	860
ZNR6028-750	75	M、N	100/0.25	0.533	900	810
ZNR6028-820	82	M、N	100/0.25	0.650	800	700
ZNR6028-101	100	M、N	100/0.25	0.650	650	700
ZNR6028-401	400	M、N	100/0.25	2.808	300	400
ZNR6028-102	1000	K、M	100/0.25	7.540	180	230



● ZNR6040 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR6040-1R0	1.0	M、N	100/0.25	0.010	7850	6300
ZNR6040-100	10	M、N	100/0.25	0.062	3200	2450
ZNR6040-120	12	M、N	100/0.25	0.075	2800	2200
ZNR6040-150	15	M、N	100/0.25	0.088	2500	2050
ZNR6040-220	22	M、N	100/0.25	0.116	2050	1800
ZNR6040-330	33	M、N	100/0.25	0.178	1650	1450
ZNR6040-680	68	M、N	100/0.25	0.370	1150	950
ZNR6040-471	470	M、N	100/0.25	2.500	420	470

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%, N: ±30%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

● ZNR6045 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR6045-R47	0.47	N	100/0.25	0.008	15000	6500
ZNR6045-R56	0.56	N	100/0.25	0.008	15000	6500
ZNR6045-R68	0.68	N	100/0.25	0.008	11000	5700
ZNR6045-R82	0.82	N	100/0.25	0.010	10350	5900
ZNR6045-1R0	1.0	N	100/0.25	0.014	9850	5140
ZNR6045-1R2	1.2	N	100/0.25	0.013	8350	5400
ZNR6045-1R5	1.5	M、N	100/0.25	0.016	8800	4950
ZNR6045-1R8	1.8	M、N	100/0.25	0.016	7600	4950
ZNR6045-2R2	2.2	M、N	100/0.25	0.018	6750	4600
ZNR6045-2R7	2.7	M、N	100/0.25	0.020	5750	4300
ZNR6045-3R3	3.3	M、N	100/0.25	0.027	5900	3700
ZNR6045-3R9	3.9	M、N	100/0.25	0.027	5250	3700
ZNR6045-4R7	4.7	M、N	100/0.25	0.034	4970	3300
ZNR6045-5R1	5.1	M、N	100/0.25	0.034	4400	3300
ZNR6045-5R6	5.6	M、N	100/0.25	0.038	4150	3150

● ZNR8040 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR8040-R82	0.82	N	100/0.25	0.010	13800	6300
ZNR8040-1R0	1.0	N	100/0.25	0.010	9850	6300
ZNR8040-1R2	1.2	N	100/0.25	0.013	10000	5650
ZNR8040-1R5	1.5	N	100/0.25	0.013	8150	5650
ZNR8040-2R0	2.0	N	100/0.25	0.016	9250	5150
ZNR8040-2R2	2.2	M、N	100/0.25	0.016	7100	5150
ZNR8040-3R0	3.0	M、N	100/0.25	0.018	6100	4700
ZNR8040-3R3	3.3	M、N	100/0.25	0.022	6500	4400
ZNR8040-3R6	3.6	M、N	100/0.25	0.022	7520	4350
ZNR8040-3R9	3.9	M、N	100/0.25	0.022	5750	4350
ZNR8040-4R7	4.7	M、N	100/0.25	0.025	5900	4100
ZNR8040-5R1	5.1	M、N	100/0.25	0.025	4700	4050
ZNR8040-5R6	5.6	M、N	100/0.25	0.027	6000	3850
ZNR8040-6R2	6.2	M、N	100/0.25	0.027	4450	3850
ZNR8040-6R8	6.8	M、N	100/0.25	0.031	4550	3600
ZNR8040-8R2	8.2	M、N	100/0.25	0.034	4200	3450
ZNR8040-100	10	M、N	100/0.25	0.038	3600	3300
ZNR8040-120	12	M、N	100/0.25	0.053	3500	2800
ZNR8040-150	15	M、N	100/0.25	0.061	2950	2600
ZNR8040-180	18	M、N	100/0.25	0.069	3700	2400
ZNR8040-220	22	M、N	100/0.25	0.090	2400	2100
ZNR8040-270	27	M、N	100/0.25	0.101	2150	2000
ZNR8040-330	33	M、N	100/0.25	0.126	2050	1800
ZNR8040-360	36	M、N	100/0.25	0.133	2000	1750
ZNR8040-390	39	M、N	100/0.25	0.139	1950	1700
ZNR8040-430	43	M、N	100/0.25	0.147	1900	1650
ZNR8040-470	47	M、N	100/0.25	0.177	1750	1550
ZNR8040-510	51	M、N	100/0.25	0.185	1700	1500
ZNR8040-560	56	M、N	100/0.25	0.192	1550	1450

● ZNR8040 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Saturation Current Max (mA)	Rated Current Max (mA)
ZNR8040-620	62	M、N	100/0.25	0.237	1500	1300
ZNR8040-680	68	M、N	100/0.25	0.255	1450	1250
ZNR8040-750	75	M、N	100/0.25	0.274	1350	1200
ZNR8040-820	82	M、N	100/0.25	0.293	1300	1150
ZNR8040-910	91	M、N	100/0.25	0.354	1200	1050
ZNR8040-101	100	K、M	100/0.25	0.377	1150	1000
ZNR8040-121	120	K、M	100/0.25	0.434	1050	950
ZNR8040-151	150	K、M	100/0.25	0.533	1100	850
ZNR8040-181	180	K、M	100/0.25	0.676	950	830
ZNR8040-221	220	K、M	100/0.25	0.779	850	800
ZNR8040-331	330	K、M	100/0.25	1.156	680	640
ZNR8040-471	470	K、M	100/0.25	1.625	600	500
ZNR8040-681	680	K、M	100/0.25	2.665	500	450
ZNR8040-102	1000	K、M	100/0.25	3.640	400	350
ZNR8040-152	1500	K、M	100/0.25	6.500	320	260

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%、N: ±30%;

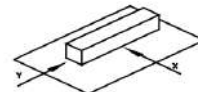
1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

DETAIL ELECTRICAL CHARACTERISTICS

1. Operating temperature range: -40 to + 105°C(Includes temperature when the coil is heated) .
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y

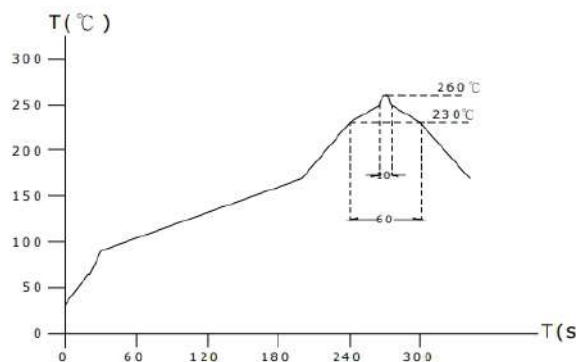
withstanding at below conditions.



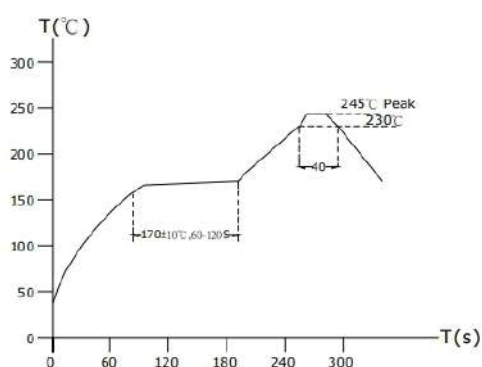
Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.

4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C degree Celsius), inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s² (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow) .
11. Storage condition: Temperature Range: 0°C ~ 35°C; -40°C ~ 105°C (after PCB), Humidity Range: 50% ~ 70% RH.
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

Lead-free heat endurance test



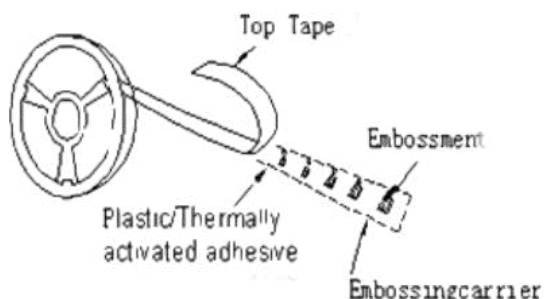
Lead-free the recommended reflow condition



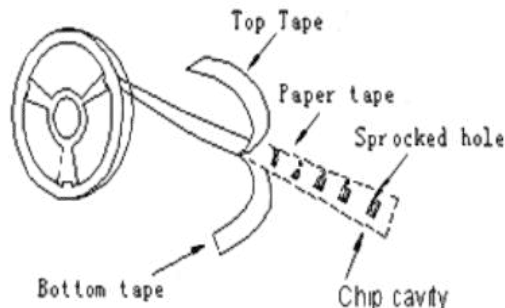
PACKAGING STYLE

• Taping Material

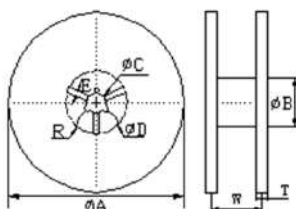
Embossing Tape



Paper Tape



• Reel Dimensions(mm)



Tape Width	A	B	C	D	E	W	T	R
8mm	178±2	60±1	13±0.5	21±0.8	2±0.5	10±1	1.5±0.5	1
12mm	178±2	60±1	13±0.5	21±0.8	2±0.5	14±1	1.5±0.5	1

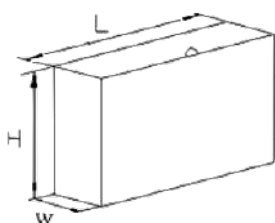
STORAGE

• Quantity

Type	PCS/REEL	PCS/INNERBOX	PCS/OUTERBOX
252012	4000	20000	100000
3015	2000	10000	50000
4020	2000	6000	12000
6045	1500	4500	9000
8040	1000	3000	6000

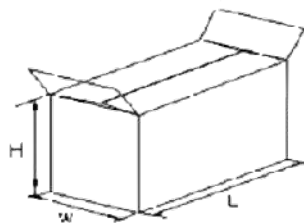
• Packing Dimensions(mm)

Inner Box Dimensions



L	W	H	THICK
180±3	70±3	190±3	2±0.8

Outer Box Dimensions



L	W	H	THICK
370±3	200±3	210±3	2±0.8

• Storage

Please be sure to the parts at 40°C, or less, 70%RH or less, and isolate the parts from sulphic and chloric atmosphere.