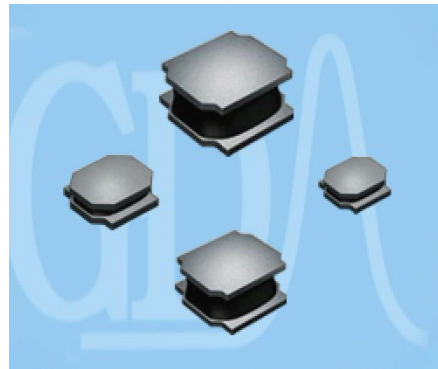


# Winding Magnetic Glue Inductors-GDNR Series

## Features

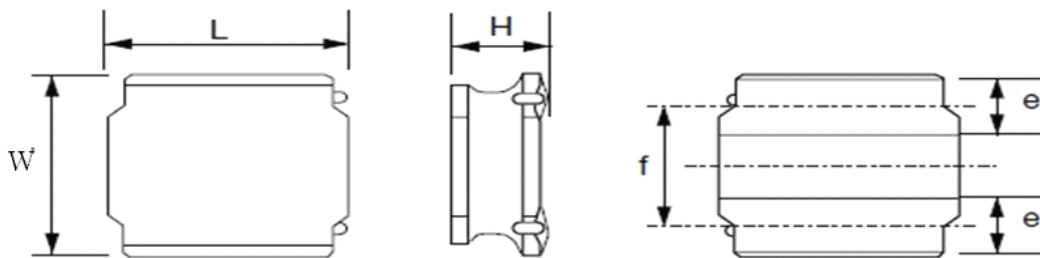
- Coating magnetic glue for shielding structure
- Large current, minisize, SMD structure  
Suitable for SMD
- A higher capacity for drop impact and vibration resistance



## Application

LED Lighting, Smart Phone, LCD, PC Digital set-top boxes, Vehicle navigation and MP3, Digital Camera

## External Dimension



Unit: mm

Series	L	W	H Max	e	f
GDNR3012	$2.95 \pm 0.1$	$2.95 \pm 0.1$	1.2	$0.9 \pm 0.2$	$1.9 \pm 0.2$
GDNR3015	$2.95 \pm 0.1$	$2.95 \pm 0.1$	1.5	$0.9 \pm 0.2$	$1.9 \pm 0.2$
GDNR4012	$4.0 \pm 0.2$	$4.0 \pm 0.2$	1.2	$1.1 \pm 0.2$	$2.5 \pm 0.2$
GDNR4020	$4.0 \pm 0.2$	$4.0 \pm 0.2$	2.0	$1.1 \pm 0.2$	$2.5 \pm 0.2$
GDNR5012	$5.0 \pm 0.2$	$5.0 \pm 0.2$	1.2	$1.2 \pm 0.2$	$3.3 \pm 0.2$
GDNR5020	$5.0 \pm 0.2$	$5.0 \pm 0.2$	2.0	$1.2 \pm 0.2$	$3.3 \pm 0.2$
GDNR5040	$5.0 \pm 0.2$	$5.0 \pm 0.2$	4.0	$1.2 \pm 0.2$	$3.3 \pm 0.2$
GDNR6012	$6.0 \pm 0.2$	$6.0 \pm 0.2$	1.2	$1.35 \pm 0.2$	$4.0 \pm 0.2$
GDNR6020	$6.0 \pm 0.2$	$6.0 \pm 0.2$	2.0	$1.35 \pm 0.2$	$4.0 \pm 0.2$
GDNR6045	$6.0 \pm 0.2$	$6.0 \pm 0.2$	4.5	$1.35 \pm 0.2$	$4.0 \pm 0.2$
GDNR8040	$8.0 \pm 0.2$	$8.0 \pm 0.2$	0.4	$1.60 \pm 0.2$	$5.6 \pm 0.2$

## Naming rule

**GDNR** **3012** **□□□** **M** **T**

①            ②            ③            ④            ⑤

- ① Type: Winding Magnetic Glue Inductors-GDNR Series
- ② External Dimension: 3012--3.0\*3.0\*1.2    4020--4.0\*4.0\*2.0
- ③ Nominal Inductance: 1R0--1.0μH    100--10μH    101--100μH
- ④ Tolerance: M--±20%    N--±30%
- ⑤ Packaging: T-lace/Tape

## Technical specifications

### GDNR3012 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR3012-R82N	0.82	0.035	2.01	2.35
GDNR3012-1R0N	1.0	0.050	2.10	1.60
GDNR3012-1R5N	1.5	0.065	1.40	1.30
GDNR3012-2R2N	2.2	0.078	1.32	1.20
GDNR3012-3R3N	3.3	0.10	1.02	1.30
GDNR3012-3R9N	3.9	0.11	0.98	1.05
GDNR3012-4R7N	4.7	0.12	0.95	1.02
GDNR3012-6R8N	6.8	0.21	0.75	0.96
GDNR3012-100M	10	0.27	0.60	0.85

### GDNR3015 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR3015-1R0N	1.0	0.03	2.10	2.20
GDNR3015-1R8N	1.8	0.05	1.70	1.70
GDNR3015-2R2N	2.2	0.06	1.60	1.65
GDNR3015-3R3N	3.3	0.08	1.30	1.42
GDNR3015-4R3N	4.3	0.11	1.20	1.14
GDNR3015-6R8N	6.8	0.15	1.00	0.96
GDNR3015-100M	10	0.25	0.72	0.80

### GDNR4012 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR4012-1R0N	1.0	0.030	2.50	2.05
GDNR4012-2R7N	2.7	0.070	1.50	1.45
GDNR4012-3R6N	3.6	0.086	1.30	1.25
GDNR4012-4R7N	4.7	0.12	1.10	1.05

GDNR4012-6R8N	6.8	0.15	0.95	0.90
GDNR4012-100M	10	0.27	0.80	0.75
GDNR4012-150M	15	0.25	0.65	0.75

GDNR4020 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流* <sup>3</sup>	Max. Heat Rating Current 温升许容电流* <sup>4</sup>
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR4020-1R0N	1.0	0.030	3.50	3.20
GDNR4020-2R2N	2.2	0.045	3.00	2.50
GDNR4020-3R3M	3.3	0.055	2.30	2.00
GDNR4020-4R7M	4.7	0.070	2.00	1.75
GDNR4020-6R8M	6.8	0.098	1.65	1.40
GDNR4020-100M	10	0.150	1.30	1.20
GDNR4020-150M	15	0.250	1.10	0.85
GDNR4020-220M	22	0.300	900	720

GDNR5012 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流* <sup>3</sup>	Max. Heat Rating Current 温升许容电流* <sup>4</sup>
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR5012-1R0N	1.0	0.053	4.10	2.20
GDNR5012-1R5N	1.5	0.070	3.50	2.00
GDNR5012-2R2N	2.2	0.085	2.80	2.00
GDNR5012-3R3M	3.3	0.160	2.30	1.50
GDNR5012-4R7M	4.7	0.180	2.00	1.40
GDNR5012-6R8M	6.8	0.260	1.50	1.10
GDNR5012-100M	10	0.420	1.20	0.85
GDNR5012-150M	15	0.670	1.00	0.65

GDNR5020 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流* <sup>3</sup>	Max. Heat Rating Current 温升许容电流* <sup>4</sup>
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR5020-1R0N	1.0	0.021	4.00	3.60
GDNR5020-1R5N	1.5	0.026	3.35	3.20

GDNR5020-2R2N	2.2	0.035	2.90	2.90
GDNR5020-3R3M	3.3	0.048	2.40	2.40
GDNR5020-4R7M	4.7	0.060	2.00	2.00
GDNR5020-6R8M	6.8	0.090	1.60	1.66
GDNR5020-100M	10	0.120	1.30	1.45
GDNR5020-150M	15	0.165	1.10	1.20
GDNR5020-220M	22	0.260	0.90	1.00

GDNR5040 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR5040-1R5N	1.5	0.017	6.40	4.50
GDNR5040-2R2N	2.2	0.022	5.00	3.70
GDNR5040-3R3N	3.3	0.027	4.00	3.30
GDNR5040-4R7N	4.7	0.029	3.30	3.10
GDNR5040-6R8M	6.8	0.048	2.80	2.40
GDNR5040-100M	10	0.058	2.30	2.10
GDNR5040-150M	15	0.080	2.00	1.80
GDNR5040-220M	22	0.126	1.50	1.40
GDNR5040-330M	33	0.180	1.30	1.20

GDNR6012 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR6012-2R5N	2.5	0.090	2.10	1.80
GDNR6012-3R3N	3.3	0.105	1.80	1.70
GDNR6012-4R7N	4.7	0.125	1.60	1.55
GDNR6012-5R3N	5.3	0.125	1.50	1.55
GDNR6012-6R8M	6.8	0.165	1.30	1.35
GDNR6012-100M	10	0.200	1.00	1.20
GDNR6012-150M	15	0.295	0.80	0.80
GDNR6012-220M	22	0.465	0.76	0.68
GDNR6012-330M	33	0.580	0.59	0.55
GDNR6012-470M	47	0.965	0.53	0.46
GDNR6012-680M	68	1.160	0.44	0.41
GDNR6012-101M	100	1.670	0.38	0.35

GDNR6020 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR6020-R80N	0.8	0.020	5.80	4.10
GDNR6020-1R5N	1.5	0.026	4.00	3.50
GDNR6020-2R2N	2.2	0.034	3.10	2.80
GDNR6020-3R3N	3.3	0.040	2.80	2.65
GDNR6020-4R7N	4.7	0.058	2.20	2.10
GDNR6020-6R8N	6.8	0.085	2.00	1.80
GDNR6020-100M	10	0.125	1.80	1.50
GDNR6020-220M	22	0.290	1.20	0.95

GDNR6045 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR6045-1R0N	1.0	0.014	9.50	4.20
GDNR6045-1R3N	1.3	0.015	8.10	4.00
GDNR6045-1R8N	1.8	0.020	7.00	3.75
GDNR6045-2R3N	2.3	0.024	6.20	3.50
GDNR6045-3R0N	3.0	0.025	5.20	3.15
GDNR6045-4R5N	4.5	0.030	4.10	3.05
GDNR6045-6R3M	6.3	0.035	3.40	3.00
GDNR6045-100M	10	0.047	2.95	2.25
GDNR6045-150M	15	0.070	2.20	1.85
GDNR6045-220M	22	0.105	2.00	1.50
GDNR6045-330M	33	0.140	1.50	1.35
GDNR6045-470M	47	0.205	1.31	1.06
GDNR6045-680M	68	0.304	1.05	0.95
GDNR6045-100M	100	0.468	0.90	0.75

GDNR8040 系列

Part Number 型号	Inductance 电感量 @100KHz / 1V	DC Resistance 直流电阻 (±30%)	额定电流	
			Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	A	A
Symbol 符号	L	DCR	Isat	Irms
GDNR8040-1R0N	1.0	0.006	12.0	7.5
GDNR8040-1R3N	1.3	0.007	10.0	7.0
GDNR8040-2R0N	2.0	0.009	8.0	6.2
GDNR8040-3R6N	3.6	0.015	6.2	4.6
GDNR8040-4R7N	4.7	0.018	5.3	4.0
GDNR8040-6R8N	6.8	0.025	4.1	3.5
GDNR8040-100M	10	0.034	3.5	3.0
GDNR8040-150M	15	0.050	2.8	2.4
GDNR8040-220M	22	0.066	2.3	2.2

※ All results are tested under 20°C