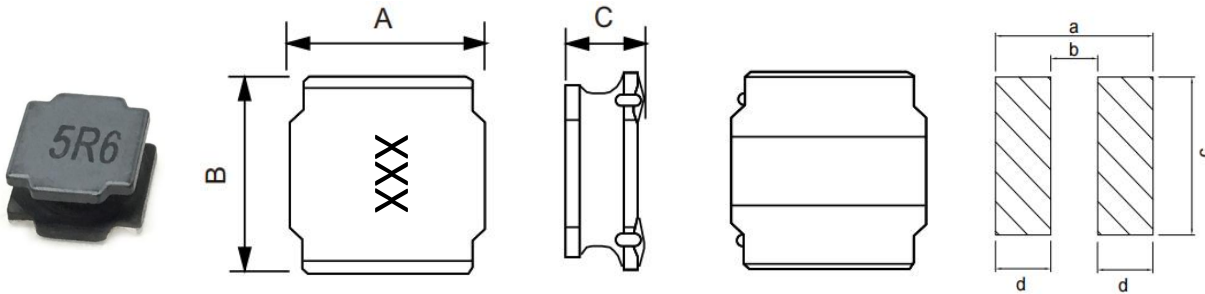


GCNR Series (SHIELDED)



■ SMD Wire Wound Power Inductors

结构及外形尺寸 Dimensions of structure and shape



Part Number	Dimensions	Dimensions	Dimensions	Land Patterns		
	长 A (mm)	宽 B(mm)	高 C(mm)	推荐焊盘尺寸		
	A (mm)	B(mm)	C(mm)	a(mm)	c(mm)	d(mm)
GCNR2016E-G	2.00±0.3	1.60±0.3	1.05	2.20	1.40	0.80
GCNR2520X-G	2.50±0.3	2.00±0.3	1.00	2.50	2.00	0.85
GCNR2520X-H	2.50±0.3	2.00±0.3	1.20	2.50	2.00	0.85
GCNR3015E	3.00±0.2	3.00±0.2	1.50±0.1	3.00	2.70	0.80
GCNR4018E	4.00±0.2	4.00±0.2	1.8+0.2/-0.3	4.00	3.70	1.20
GCNR4030E	4.00±0.2	4.00±0.2	3.0+0.2/-0.3	4.00	3.70	1.20
GCNR5020E	5.00±0.2	5.00±0.2	2.0+0.2/-0.3	5.00	4.70	1.50
GCNR5040D	5.00±0.2	5.00±0.2	4.0+0.2/-0.3	5.00	4.70	1.50
GCNR6028E	6.00±0.3	6.00±0.3	2.8+0.2/-0.3	6.30	5.70	1.60
GCNR6045E	6.00±0.3	6.00±0.3	4.5+0.2/-0.3	6.30	5.70	1.60
GCNR8040E	8.00±0.3	8.00±0.3	4.20 max	7.40	7.70	1.80

特点 Features

- 小型和薄款电感
- Small and Low profile inductor
- 有效的对应高电流
- It corresponds to high current
- 磁屏蔽结构
- Shield structure magnetically
- 结构比较稳定
- Strong structure against a shock-proof

应用 Applications

- 液晶显示器
- LCD Display etc.
- 适用于小型DC-DC转换器
- For Small DC to DC Converters
- 笔记本电脑
- PDA

电感特性范围 Inductance and rated current ranges

GCNR2016E-G	1.0~10uH	114~1000mΩ	1.65~0.65A
GCNR2520X-G	1.0~22uH	108~1625mΩ	1.85~0.40A
GCNR2520X-H	1.0~33uH	90~2364mΩ	2.59~0.33A
GCNR3015E	1.0~47uH	37~1200mΩ	2.10~0.35A
GCNR4018E	1.0~47uH	23~850mΩ	4.00~0.60A
GCNR4030E	1.0~100uH	14~1150mΩ	5.26~0.60A
GCNR5020E	1.0~47uH	20~560mΩ	4.33~0.81A
GCNR5040D	1.0~100uH	12~560mΩ	7.35~0.75A
GCNR6028E	1.0~100uH	12~670mΩ	5.70~0.65A
GCNR6045E	1.0~100uH	12~500mΩ	9.85~0.80A
GCNR8040E	1.0~100uH	8~295mΩ	9.85~1.15A

包装数量 Packaging Quantity

GCNR2016E-G	3000PCS/R
GCNR2520X-G	3000PCS/R
GCNR2520X-H	3000PCS/R
GCNR3015E	2000PCS/R
GCNR4018E	3000PCS/R
GCNR4030E	2500PCS/R
GCNR5020E	2500PCS/R
GCNR5040D	1500PCS/R
GCNR6028E	1500PCS/R
GCNR6045E	1000PCS/R
GCNR8040E	1000PCS/R

★ 产品可以按客户要求定制

Products can be customized according to customer requirements

本产品符合车载信赖性标准AEC-Q200

This product Complied with automotive reliability test standard AEC-Q200

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GCNR Series (SHIELDED)

ELECTRICAL SPECIFICATION

GCNR2016E Series (Quantity: 2000PCS)/GCNR2016E 系列 (数量: 2000PCS)

Part Number	Marking	Inductance (μ H)	DCR (m Ω) max.	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR2016E-1R0NG3	1R0	1.0	114	100KHz/1v	1.65	1.45
GCNR2016E-1R5NG3	1R5	1.5	174	100KHz/1v	1.35	1.10
GCNR2016E-2R2MG3	2R2	2.2	265	100KHz/1v	1.20	1.05
GCNR2016E-3R3MG3	3R3	3.3	345	100KHz/1v	1.00	0.85
GCNR2016E-4R7MG3	4R7	4.7	480	100KHz/1v	0.75	0.70
GCNR2016E-6R8MG3	6R8	6.8	800	100KHz/1v	0.70	0.55
GCNR2016E-100MG3	100	8.2	940	100KHz/1v	0.68	0.53
GCNR2016E-150MG3	150	10	1000	100KHz/1v	0.65	0.50

GCNR2520X-G Series (Quantity: 2000PCS)/GCNR2520X-G 系列 (数量: 2000PCS)

Part Number	Marking	Inductance (μ H)	DCR (m Ω) max.	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR2520X-1R0NG3	1R0	1.0	80	100KHz/1v	2.05	1.85
GCNR2520X-1R5NG3	1R5	1.5	108	100KHz/1v	1.70	1.55
GCNR2520X-2R2MG3	2R2	2.2	150	100KHz/1v	1.50	1.35
GCNR2520X-3R3MG3	3R3	3.3	228	100KHz/1v	1.10	1.05
GCNR2520X-4R7MG3	4R7	4.7	330	100KHz/1v	1.00	0.90
GCNR2520X-5R6MG3	5R6	5.6	480	100KHz/1v	0.90	0.80
GCNR2520X-6R8MG3	6R8	6.8	480	100KHz/1v	0.80	0.72
GCNR2520X-8R2MG3	8R2	8.2	572	100KHz/1v	0.73	0.69
GCNR2520X-100MG3	100	10	600	100KHz/1v	0.65	0.65
GCNR2520X-120MG3	120	12	850	100KHz/1v	0.58	0.58
GCNR2520X-150MG3	150	15	1050	100KHz/1v	0.50	0.45

GCNR2520X-H Series (Quantity: 2000PCS)/GCNR2520X-H 系列 (数量: 2000PCS)

Part Number	Marking	Inductance (μ H)	DCR (m Ω) max.	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR2520X-1R0NH3	1R0	1.0	60	100KHz/1v	2.25	2.30
GCNR2520X-1R2NH3	1R2	1.2	78	100KHz/1v	2.20	2.00
GCNR2520X-1R5NH3	1R5	1.5	90	100KHz/1v	2.00	1.80
GCNR2520X-1R8NH3	1R8	1.8	108	100KHz/1v	1.95	1.75
GCNR2520X-2R2MH3	2R2	2.2	108	100KHz/1v	1.75	1.75
GCNR2520X-2R7MH3	2R7	2.7	156	100KHz/1v	1.30	1.40
GCNR2520X-3R3MH3	3R3	3.3	156	100KHz/1v	1.20	1.40
GCNR2520X-4R7MH3	4R7	4.7	228	100KHz/1v	1.10	1.10
GCNR2520X-5R6MH3	5R6	5.6	330	100KHz/1v	1.00	1.00
GCNR2520X-6R8MH3	6R8	6.8	360	100KHz/1v	0.90	0.95
GCNR2520X-100MH3	100	10	522	100KHz/1v	0.70	0.78
GCNR2520X-150MH3	150	15	1000	100KHz/1v	0.60	0.50
GCNR2520X-220MH3	220	22	1290	100KHz/1v	0.45	0.48



GCNR Series (SHIELDED)

ELECTRICAL SPECIFICATION

GCNR3015E Series (Quantity: 2000PCS)/GCNR3015E 系列 (数量: 2000PCS)

Part Number	Marking	Inductance (μ H)	DCR ($m\Omega$) $\pm 30\%$	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR3015E-1R0N01	1R0	1.0	37	100KHz/1v	2.10	1.90
GCNR3015E-1R5N01	1R5	1.5	50	100KHz/1v	1.80	1.70
GCNR3015E-2R2M01	2R2	2.2	60	100KHz/1v	1.60	1.45
GCNR3015E-3R3M01	3R3	3.3	80	100KHz/1v	1.32	1.20
GCNR3015E-4R7M01	4R7	4.7	125	100KHz/1v	1.10	1.08
GCNR3015E-6R8M01	6R8	6.8	200	100KHz/1v	0.87	0.85
GCNR3015E-100M01	100	10	250	100KHz/1v	0.72	0.70
GCNR3015E-150M01	150	15	350	100KHz/1v	0.65	0.64
GCNR3015E-220M01	220	22	460	100KHz/1v	0.52	0.57
GCNR3015E-330M01	330	33	780	100KHz/1v	0.38	0.35
GCNR3015E-470M01	470	47	1200	100KHz/1v	0.35	0.30

GCNR4018E Series (Quantity: 3000PCS)/GCNR4018E 系列 (数量: 3000PCS)

Part Number	Marking	Inductance (μ H)	DCR ($m\Omega$) $\pm 30\%$	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR4018E-1R0N01	1R0	1.0	23	100KHz/1v	4.00	2.00
GCNR4018E-1R5N01	1R5	1.5	33	100KHz/1v	3.35	1.80
GCNR4018E-2R2M01	2R2	2.2	42	100KHz/1v	2.70	1.75
GCNR4018E-3R3M01	3R3	3.3	70	100KHz/1v	2.00	1.23
GCNR4018E-4R7M01	4R7	4.7	90	100KHz/1v	1.70	1.20
GCNR4018E-5R6M01	5R6	5.6	103	100KHz/1v	1.60	1.15
GCNR4018E-6R8M01	6R8	6.8	124	100KHz/1v	1.45	1.06
GCNR4018E-100M01	100	10	200	100KHz/1v	1.30	0.90
GCNR4018E-150M01	150	15	268	100KHz/1v	0.94	0.65
GCNR4018E-220M01	220	22	390	100KHz/1v	0.80	0.59
GCNR4018E-330M01	330	33	560	100KHz/1v	0.67	0.55
GCNR4018E-470M01	470	47	850	100KHz/1v	0.60	0.42
GCNR4018E-680M01	680	68	1000	100KHz/1v	0.47	0.32
GCNR4018E-101M01	101	100	1750	100KHz/1v	0.40	0.25

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GCNR Series (SHIELDED)

ELECTRICAL SPECIFICATION

GCNR4030E Series (Quantity: 2500PCS)/GCNR4030E 系列 (数量: 2500PCS)

Part Number	Marking	Inductance (μ H)	DCR (m Ω) \pm 30%	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR4030E-1R0N01	1R0	1.0	14	100KHz/1v	5.26	4.15
GCNR4030E-1R5N01	1R5	1.5	20	100KHz/1v	4.20	3.34
GCNR4030E-2R2M01	2R2	2.2	30	100KHz/1v	3.80	2.95
GCNR4030E-3R3M01	3R3	3.3	40	100KHz/1v	3.30	2.40
GCNR4030E-4R7M01	4R7	4.7	60	100KHz/1v	2.90	2.00
GCNR4030E-6R8M01	6R8	6.8	90	100KHz/1v	2.00	1.60
GCNR4030E-100M01	100	10	100	100KHz/1v	1.85	1.50
GCNR4030E-150M01	150	15	190	100KHz/1v	1.45	1.11
GCNR4030E-220M01	220	22	225	100KHz/1v	1.30	1.00
GCNR4030E-330M01	330	33	330	100KHz/1v	1.00	0.84
GCNR4030E-470M01	470	47	445	100KHz/1v	0.80	0.72
GCNR4030E-680M01	680	68	868	100KHz/1v	0.70	0.52
GCNR4030E-820M01	820	82	1060	100KHz/1v	0.66	0.47
GCNR4030E-101M01	101	100	1150	100KHz/1v	0.60	0.45

GCNR5020E Series (Quantity: 2500PCS)/GCNR5020E 系列 (数量: 2500PCS)

Part Number	Marking	Inductance (μ H)	DCR (m Ω) \pm 30%	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR5020E-1R0N01	1R0	1.0	20	100KHz/1v	4.33	4.30
GCNR5020E-1R5N01	1R5	1.5	26	100KHz/1v	4.10	3.20
GCNR5020E-2R2M01	2R2	2.2	38	100KHz/1v	3.20	2.90
GCNR5020E-3R3M01	3R3	3.3	46	100KHz/1v	2.55	2.50
GCNR5020E-4R7M01	4R7	4.7	65	100KHz/1v	2.40	2.20
GCNR5020E-6R8M01	6R8	6.8	92	100KHz/1v	2.10	1.80
GCNR5020E-8R2M01	8R2	8.2	100	100KHz/1v	1.90	1.68
GCNR5020E-100M01	100	10	125	100KHz/1v	1.50	1.45
GCNR5020E-150M01	150	15	180	100KHz/1v	1.44	1.25
GCNR5020E-220M01	220	22	250	100KHz/1v	1.18	1.10
GCNR5020E-330M01	330	33	370	100KHz/1v	0.97	0.93
GCNR5020E-470M01	470	47	560	100KHz/1v	0.81	0.77
GCNR5020E-680M01	680	68	740	100KHz/1v	0.65	0.64
GCNR5020E-101M01	101	100	1100	100KHz/1v	0.53	0.53

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GCNR Series (SHIELDED)

ELECTRICAL SPECIFICATION

GCNR5040D Series (Quantity: 1500PCS)/GCNR5040D 系列 (数量: 1500PCS)

Part Number	Marking	Inductance (μ H)	DCR (m Ω) \pm 30%	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR5040D-1R0N01	1R0	1.0	12	100KHz/1v	7.35	4.90
GCNR5040D-1R5N01	1R5	1.5	15	100KHz/1v	6.30	4.30
GCNR5040D-2R2M01	2R2	2.2	19	100KHz/1v	4.90	3.80
GCNR5040D-3R3M01	3R3	3.3	24	100KHz/1v	3.95	3.40
GCNR5040D-4R7M01	4R7	4.7	30	100KHz/1v	3.50	3.00
GCNR5040D-6R8M01	6R8	6.8	43	100KHz/1v	2.75	2.50
GCNR5040D-100M01	100	10	64	100KHz/1v	2.35	2.10
GCNR5040D-150M01	150	15	86	100KHz/1v	2.00	1.95
GCNR5040D-220M01	220	22	129	100KHz/1v	1.60	1.50
GCNR5040D-330M01	330	33	188	100KHz/1v	1.30	1.20
GCNR5040D-470M01	470	47	272	100KHz/1v	1.10	1.00
GCNR5040D-680M01	680	68	400	100KHz/1v	0.90	0.80
GCNR5040D-101M01	101	100	560	100KHz/1v	0.75	0.70
GCNR5040D-221M01	221	220	1450	100KHz/1v	0.45	0.40

GCNR6028E Series (Quantity: 1500PCS)/GCNR6028E 系列 (数量: 1500PCS)

Part Number	Marking	Inductance (μ H)	DCR (m Ω) \pm 30%	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR6028E-1R0N01	1R0	1.0	12	100KHz/1v	5.70	5.20
GCNR6028E-1R5N01	1R5	1.5	16	100KHz/1v	5.00	4.50
GCNR6028E-2R2M01	2R2	2.2	20	100KHz/1v	4.50	3.80
GCNR6028E-3R3M01	3R3	3.3	25	100KHz/1v	3.63	3.20
GCNR6028E-4R7M01	4R7	4.7	33	100KHz/1v	3.00	2.70
GCNR6028E-6R8M01	6R8	6.8	56	100KHz/1v	2.60	2.20
GCNR6028E-100M01	100	10	78	100KHz/1v	2.05	1.80
GCNR6028E-150M01	150	15	125	100KHz/1v	1.75	1.70
GCNR6028E-180M01	180	18	130	100KHz/1v	1.55	1.50
GCNR6028E-220M01	220	22	140	100KHz/1v	1.45	1.40
GCNR6028E-270M01	270	27	180	100KHz/1v	1.30	1.20
GCNR6028E-330M01	330	33	220	100KHz/1v	1.23	1.10
GCNR6028E-470M01	470	47	280	100KHz/1v	1.10	1.00
GCNR6028E-680M01	680	68	450	100KHz/1v	0.88	0.80
GCNR6028E-820M01	820	82	550	100KHz/1v	0.76	0.70
GCNR6028E-101M01	101	100	670	100KHz/1v	0.65	0.60

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GCNR Series (SHIELDED)

ELECTRICAL SPECIFICATION

GCNR6045E Series (Quantity: 1000PCS)/GCNR6045E 系列 (数量: 1000PCS)

Part Number	Marking	Inductance (μ H)	DCR ($m\Omega$) $\pm 30\%$	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR6045E-1R0N01	1R0	1.0	12	100KHz/1v	9.85	5.14
GCNR6045E-1R5N01	1R5	1.5	15	100KHz/1v	8.80	4.95
GCNR6045E-2R2M01	2R2	2.2	21	100KHz/1v	6.00	4.00
GCNR6045E-3R3M01	3R3	3.3	23	100KHz/1v	5.20	3.00
GCNR6045E-4R7M01	4R7	4.7	25	100KHz/1v	4.00	3.00
GCNR6045E-6R8M01	6R8	6.8	40	100KHz/1v	3.80	3.00
GCNR6045E-100M01	100	10	47	100KHz/1v	3.00	2.50
GCNR6045E-150M01	150	15	77	100KHz/1v	2.30	2.00
GCNR6045E-220M01	220	22	115	100KHz/1v	1.90	1.80
GCNR6045E-330M01	330	33	145	100KHz/1v	1.50	1.45
GCNR6045E-470M01	470	47	220	100KHz/1v	1.30	1.25
GCNR6045E-680M01	680	68	330	100KHz/1v	1.00	0.90
GCNR6045E-101M01	101	100	500	100KHz/1v	0.80	0.70
GCNR6045E-221M01	221	220	1100	100KHz/1v	0.70	0.59

GCNR8040E Series (Quantity: 1000PCS)/GCNR8040E 系列 (数量: 1000PCS)

Part Number	Marking	Inductance (μ H)	DCR ($m\Omega$) $\pm 30\%$	Test Freq. (Hz)	Saturation Current(A)	Temperature Rise Current(A)
GCNR8040E-1R0N01	1R0	1.0	8	100KHz/1v	9.85	6.30
GCNR8040E-1R5N01	1R5	1.5	10	100KHz/1v	8.15	5.65
GCNR8040E-2R2M01	2R2	2.2	12	100KHz/1v	7.10	5.15
GCNR8040E-3R3M01	3R3	3.3	17	100KHz/1v	6.50	4.40
GCNR8040E-4R7M01	4R7	4.7	20	100KHz/1v	5.90	4.10
GCNR8040E-5R6M01	5R6	5.6	24	100KHz/1v	5.50	3.85
GCNR8040E-6R8M01	6R8	6.8	28	100KHz/1v	4.55	3.60
GCNR8040E-100M01	100	10	34	100KHz/1v	3.80	3.30
GCNR8040E-150M01	150	15	56	100KHz/1v	2.95	2.60
GCNR8040E-220M01	220	22	74	100KHz/1v	2.40	2.10
GCNR8040E-330M01	330	33	100	100KHz/1v	2.05	1.80
GCNR8040E-470M01	470	47	158	100KHz/1v	1.75	1.55
GCNR8040E-680M01	680	68	196	100KHz/1v	1.45	1.25
GCNR8040E-101M01	101	100	295	100KHz/1v	1.15	1.00
GCNR8040E-151M01	151	150	470	100KHz/1v	1.10	0.85
GCNR8040E-221M01	221	220	660	100KHz/1v	0.85	0.80
GCNR8040E-331M01	331	330	970	100KHz/1v	0.68	0.64
GCNR8040E-471M01	471	470	1400	100KHz/1v	0.60	0.50