

# CDRI62---127 Series

## FEATURES

- With magnetic field against radiation
- Highly accurate dimensions for automatic mounting
- High power, high saturation inductors
- Suitable for reflow soldering

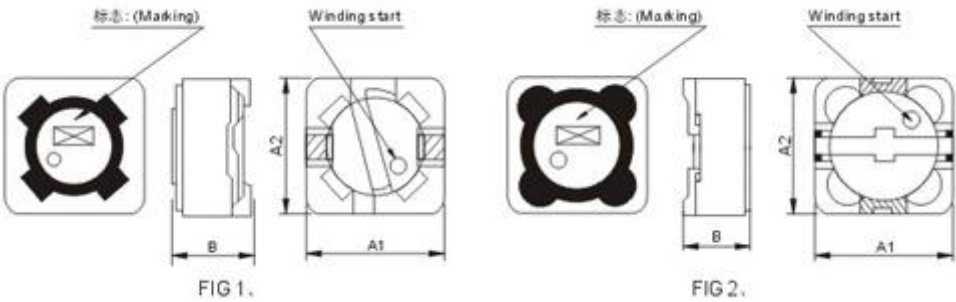
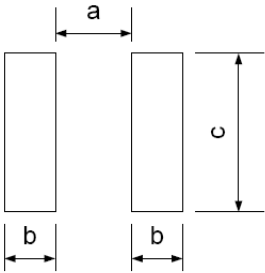
## APPLICATIONS

- DC-DC convertor
- LCD TV
- Notebooks
- PDA
- MP3-MP4player
- Digital camera
- Portable CDR-W

Operating temperature range: -25℃~+120℃ (Including self-heating)

## SHAPE AND DIMENSIONS

## Recommended Land Pattern



Unit:mm

Series	A1	A2	B(Max.)	a Typ.	b Typ.	c Typ.	FIG
CDRI62	6.3±0.3	6.3±0.3	3.0	4.60	1.40	1.90	1
CDRI64	6.3±0.3	6.3±0.3	5.0	4.60	1.40	1.90	1
CDRI73	7.3±0.3	7.3±0.3	3.8	4.80	1.60	2.20	1
CDRI74	7.3±0.3	7.3±0.3	4.5	4.80	1.60	2.20	1
CDRI124	12.0±0.3	12.0±0.3	5.0	7.00	2.90	5.40	2
CDRI125	12.0±0.3	12.0±0.3	6.2	7.00	2.90	5.40	2
CDRI127	12.0±0.3	12.0±0.3	8.0	7.00	2.90	5.40	2

## Electrical Characteristics

CDRI62 Series

Part Number	Inductance	Test Conditions	DC Resistance Max.	Rated Current
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Unit	uH	-	OHM	A
Symbol	L	-	DCR	IDC
CDRI62-3R3NT	3.3 ± 30%	100KHz,0.1V	0.068	1.94
CDRI62-4R7NT	4.7 ± 30%	100KHz,0.1V	0.080	1.63
CDRI62-5R6NT	5.6 ± 30%	100KHz,0.1V	0.096	1.40
CDRI62-100NT	10 ± 30%	1KHz,0.1V	0.150	1.10
CDRI62-120NT	12 ± 30%	1KHz,0.1V	0.200	1.00
CDRI62-150NT	15 ± 30%	1KHz,0.1V	0.230	0.90
CDRI62-180NT	18 ± 30%	1KHz,0.1V	0.270	0.80
CDRI62-220NT	22 ± 30%	1KHz,0.1V	0.340	0.74
CDRI62-270NT	27 ± 30%	1KHz,0.1V	0.380	0.66
CDRI62-330NT	33 ± 30%	1KHz,0.1V	0.450	0.59
CDRI62-390NT	39 ± 30%	1KHz,0.1V	0.490	0.54
CDRI62-470NT	47 ± 30%	1KHz,0.1V	0.690	0.50
CDRI62-560NT	56 ± 30%	1KHz,0.1V	0.780	0.46
CDRI62-680NT	68 ± 30%	1KHz,0.1V	1.07	0.42
CDRI62-820NT	82 ± 30%	1KHz,0.1V	1.21	0.38
CDRI62-101NT	100 ± 30%	1KHz,0.1V	1.39	0.34
CDRI62-121NT	120 ± 30%	1KHz,0.1V	1.90	0.31
CDRI62-151NT	150 ± 30%	1KHz,0.1V	2.18	0.28
CDRI62-181NT	180 ± 30%	1KHz,0.1V	2.77	0.26
CDRI62-221NT	220 ± 30%	1KHz,0.1V	3.12	0.23
CDRI62-271NT	270 ± 30%	1KHz,0.1V	4.38	0.22
CDRI62-331NT	330 ± 30%	1KHz,0.1V	4.94	0.19

#### CDRI64 Series

Part Number	Inductance	Test Conditions	DC Resistance Max.	Rated Current
Unit	uH	-	OHM	A
Symbol	L	-	DCR	IDC
CDRI64-100NT	10 ± 30%	1KHz,0.1V	0.12	1.36
CDRI64-120NT	12 ± 30%	1KHz,0.1V	0.13	1.22
CDRI64-150NT	15 ± 30%	1KHz,0.1V	0.18	1.11
CDRI64-180NT	18 ± 30%	1KHz,0.1V	0.24	1.02
CDRI64-220NT	22 ± 30%	1KHz,0.1V	0.27	0.91
CDRI64-270NT	27 ± 30%	1KHz,0.1V	0.30	0.82
CDRI64-330NT	33 ± 30%	1KHz,0.1V	0.33	0.74
CDRI64-390NT	39 ± 30%	1KHz,0.1V	0.37	0.69
CDRI64-470NT	47 ± 30%	1KHz,0.1V	0.52	0.62
CDRI64-560NT	56 ± 30%	1KHz,0.1V	0.56	0.58
CDRI64-680NT	68 ± 30%	1KHz,0.1V	0.63	0.51
CDRI64-820NT	82 ± 30%	1KHz,0.1V	0.71	0.46
CDRI64-101NT	100 ± 30%	1KHz,0.1V	1.03	0.42
CDRI64-121NT	120 ± 30%	1KHz,0.1V	1.15	0.38
CDRI64-151NT	150 ± 30%	1KHz,0.1V	1.68	0.35
CDRI64-181NT	180 ± 30%	1KHz,0.1V	1.87	0.32
CDRI64-221NT	220 ± 30%	1KHz,0.1V	2.08	0.29
CDRI64-271NT	270 ± 30%	1KHz,0.1V	2.37	0.26
CDRI64-331NT	330 ± 30%	1KHz,0.1V	2.67	0.23
CDRI64-391NT	390 ± 30%	1KHz,0.1V	2.94	0.22
CDRI64-471NT	470 ± 30%	1KHz,0.1V	3.93	0.20

CDRI64-561NT	560 $\pm$ 30%	1KHz,0.1V	5.43	0.18
CDRI64-681NT	680 $\pm$ 30%	1KHz,0.1V	7.32	0.17
CDRI64-821NT	820 $\pm$ 30%	1KHz,0.1V	8.24	0.15
CDRI64-102NT	102 $\pm$ 30%	1KHz,0.1V	9.26	0.14

#### CDRI73 Series

Part Number	Inductance	Test Conditions	DC Resistance Max.	Rated Current
Unit	uH	-	OHM	A
Symbol	L	-	DCR	IDC
CDRI73-100NT	10 $\pm$ 30%	1KHz,0.1V	0.072	1.68
CDRI73-120NT	12 $\pm$ 30%	1KHz,0.1V	0.098	1.52
CDRI73-150NT	15 $\pm$ 30%	1KHz,0.1V	0.13	1.33
CDRI73-180NT	18 $\pm$ 30%	1KHz,0.1V	0.14	1.20
CDRI73-220NT	22 $\pm$ 30%	1KHz,0.1V	0.19	1.07
CDRI73-270NT	27 $\pm$ 30%	1KHz,0.1V	0.21	0.96
CDRI73-330NT	33 $\pm$ 30%	1KHz,0.1V	0.24	0.91
CDRI73-390NT	39 $\pm$ 30%	1KHz,0.1V	0.32	0.77
CDRI73-470NT	47 $\pm$ 30%	1KHz,0.1V	0.36	0.76
CDRI73-560NT	56 $\pm$ 30%	1KHz,0.1V	0.47	0.68
CDRI73-680NT	68 $\pm$ 30%	1KHz,0.1V	0.52	0.61
CDRI73-820NT	82 $\pm$ 30%	1KHz,0.1V	0.69	0.57
CDRI73-101NT	100 $\pm$ 30%	1KHz,0.1V	0.79	0.50
CDRI73-121NT	120 $\pm$ 30%	1KHz,0.1V	0.89	0.49
CDRI73-151NT	150 $\pm$ 30%	1KHz,0.1V	1.27	0.43
CDRI73-181NT	180 $\pm$ 30%	1KHz,0.1V	1.45	0.39
CDRI73-221NT	220 $\pm$ 30%	1KHz,0.1V	1.65	0.36
CDRI73-271NT	270 $\pm$ 30%	1KHz,0.1V	2.31	0.32
CDRI73-331NT	330 $\pm$ 30%	1KHz,0.1V	2.62	0.28
CDRI73-391NT	390 $\pm$ 30%	1KHz,0.1V	2.94	0.26
CDRI73-471NT	470 $\pm$ 30%	1KHz,0.1V	4.18	0.24
CDRI73-561NT	560 $\pm$ 30%	1KHz,0.1V	4.67	0.22
CDRI73-681NT	680 $\pm$ 30%	1KHz,0.1V	5.73	0.19
CDRI73-821NT	820 $\pm$ 30%	1KHz,0.1V	6.54	0.18
CDRI73-102NT	102 $\pm$ 30%	1KHz,0.1V	9.44	0.16

#### CDRI74 Series

Part Number	Inductance	Test Conditions	DC Resistance Max.	Rated Current
Unit	uH	-	OHM	A
Symbol	L	-	DCR	IDC
CDRI74-100NT	10 $\pm$ 30%	1KHz,0.1V	0.049	1.84
CDRI74-120NT	12 $\pm$ 30%	1KHz,0.1V	0.058	1.71
CDRI74-150NT	15 $\pm$ 30%	1KHz,0.1V	0.081	1.47
CDRI74-180NT	18 $\pm$ 30%	1KHz,0.1V	0.091	1.31
CDRI74-220NT	22 $\pm$ 30%	1KHz,0.1V	0.11	1.23
CDRI74-270NT	27 $\pm$ 30%	1KHz,0.1V	0.15	1.12

CDRI74-330NT	33±30%	1KHz,0.1V	0.17	0.96
CDRI74-390NT	39±30%	1KHz,0.1V	0.23	0.91
CDRI74-470NT	47±30%	1KHz,0.1V	0.26	0.88
CDRI74-560NT	56±30%	1KHz,0.1V	0.35	0.75
CDRI74-680NT	68±30%	1KHz,0.1V	0.38	0.69
CDRI74-820NT	82±30%	1KHz,0.1V	0.43	0.61
CDRI74-101NT	100±30%	1KHz,0.1V	0.61	0.60
CDRI74-121NT	120±30%	1KHz,0.1V	0.66	0.52
CDRI74-151NT	150±30%	1KHz,0.1V	0.88	0.46
CDRI74-181NT	180±30%	1KHz,0.1V	0.98	0.42
CDRI74-221NT	220±30%	1KHz,0.1V	1.17	0.36
CDRI74-271NT	270±30%	1KHz,0.1V	1.64	0.34
CDRI74-331NT	330±30%	1KHz,0.1V	1.86	0.32
CDRI74-391NT	390±30%	1KHz,0.1V	2.85	0.29
CDRI74-471NT	470±30%	1KHz,0.1V	3.01	0.26
CDRI74-561NT	560±30%	1KHz,0.1V	3.62	0.23
CDRI74-681NT	680±30%	1KHz,0.1V	4.63	0.22
CDRI74-821NT	820±30%	1KHz,0.1V	5.20	0.20
CDRI74-102NT	1000±30%	1KHz,0.1V	6.00	0.18

CDRI124 Series

Part Number	Inductance	Test Conditions	DC Resistance Max.	Rated Current
Unit	uH	-	OHM	A
Symbol	L	-	DCR	IDC
CDRI124-1R0NT	1.0±30%	100KHz,0.1V	0.001	8.0
CDRI124-2R2NT	2.2±30%	100KHz,0.1V	0.014	4.9
CDRI124-3R3NT	3.3±30%	100KHz,0.1V	0.015	4.5
CDRI124-4R7NT	4.7±30%	100KHz,0.1V	0.018	5.7
CDRI124-5R6NT	5.6±30%	100KHz,0.1V	0.020	5.2
CDRI124-6R8NT	6.8±30%	100KHz,0.1V	0.023	4.9
CDRI124-8R2NT	8.2±30%	100KHz,0.1V	0.026	4.6
CDRI124-100NT	10±30%	100KHz,0.1V	0.028	4.5
CDRI124-120NT	12±30%	100KHz,0.1V	0.038	4.0
CDRI124-150NT	15±30%	100KHz,0.1V	0.050	3.2
CDRI124-180NT	18±30%	100KHz,0.1V	0.057	3.1
CDRI124-220NT	22±30%	100KHz,0.1V	0.066	2.9
CDRI124-270NT	27±30%	100KHz,0.1V	0.080	2.8
CDRI124-330NT	33±30%	100KHz,0.1V	0.097	2.7
CDRI124-390NT	39±30%	100KHz,0.1V	0.132	2.1
CDRI124-470NT	47±30%	100KHz,0.1V	0.15	1.9
CDRI124-560NT	56±30%	100KHz,0.1V	0.19	1.8
CDRI124-680NT	68±30%	100KHz,0.1V	0.22	1.5
CDRI124-820NT	82±30%	100KHz,0.1V	0.26	1.3
CDRI124-101NT	100±30%	100KHz,0.1V	0.31	1.2
CDRI124-121NT	120±30%	100KHz,0.1V	0.38	1.1
CDRI124-151NT	150±30%	100KHz,0.1V	0.53	1.0
CDRI124-181NT	180±30%	100KHz,0.1V	0.62	0.9
CDRI124-221NT	220±30%	100KHz,0.1V	0.70	0.8
CDRI124-271NT	270±30%	100KHz,0.1V	0.88	0.6
CDRI124-331NT	330±30%	100KHz,0.1V	0.99	0.5

CDRI125 Series

Part Number	Inductance	Test Conditions	DC Resistance Max.	Rated Current
Unit	uH	-	OHM	A
Symbol	L	-	DCR	IDC
CDRI125-1R0NT	1.0±30%	100KHz,0.1V	0.010	8.0
CDRI125-2R2NT	2.2±30%	100KHz,0.1V	0.014	7.8
CDRI125-3R3NT	3.3±30%	100KHz,0.1V	0.014	8.0
CDRI125-6R8NT	6.8±30%	100KHz,0.1V	0.021	4.4
CDRI125-100NT	10±30%	100KHz,0.1V	0.025	4.0
CDRI125-120NT	12±30%	100KHz,0.1V	0.027	3.5
CDRI125-150NT	15±30%	100KHz,0.1V	0.030	3.3
CDRI125-180NT	18±30%	100KHz,0.1V	0.034	3.0
CDRI125-220NT	22±30%	100KHz,0.1V	0.036	2.8
CDRI125-270NT	27±30%	100KHz,0.1V	0.051	2.3
CDRI125-330NT	33±30%	100KHz,0.1V	0.057	2.1
CDRI125-390NT	39±30%	100KHz,0.1V	0.068	2.0
CDRI125-470NT	47±30%	100KHz,0.1V	0.075	1.8
CDRI125-560NT	56±30%	100KHz,0.1V	0.11	1.7
CDRI125-680NT	68±30%	100KHz,0.1V	0.12	1.5
CDRI125-820NT	82±30%	100KHz,0.1V	0.14	1.4
CDRI125-101NT	100±30%	100KHz,0.1V	0.16	1.3
CDRI125-121NT	120±30%	100KHz,0.1V	0.17	1.1
CDRI125-151NT	150±30%	100KHz,0.1V	0.23	1.0
CDRI125-181NT	180±30%	100KHz,0.1V	0.29	0.9
CDRI125-221NT	220±30%	100KHz,0.1V	0.40	0.8
CDRI125-271NT	270±30%	100KHz,0.1V	0.46	0.8
CDRI125-331NT	330±30%	100KHz,0.1V	0.51	0.7
CDRI125-391NT	390±30%	1KHz,0.1V	0.69	0.7
CDRI125-471NT	470±30%	1KHz,0.1V	0.77	0.6
CDRI125-561NT	560±30%	1KHz,0.1V	0.86	0.5
CDRI125-681NT	680±30%	1KHz,0.1V	1.20	0.5
CDRI125-821NT	820±30%	1KHz,0.1V	1.34	0.4
CDRI125-102NT	1000±30%	1KHz,0.1V	1.53	0.4

CDRI127 Series

Part Number	Inductance	Test Conditions	DC Resistance Max.	Rated Current
Unit	uH	-	OHM	A
Symbol	L	-	DCR	IDC
CDRI127-100NT	10±30%	1KHz,0.1V	0.0216	5.4
CDRI127-120NT	12±30%	1KHz,0.1V	0.0243	4.9
CDRI127-150NT	15±30%	1KHz,0.1V	0.0270	4.5
CDRI127-180NT	18±30%	1KHz,0.1V	0.0392	3.9
CDRI127-220NT	22±30%	1KHz,0.1V	0.0432	3.6
CDRI127-270NT	27±30%	1KHz,0.1V	0.0459	3.4
CDRI127-330NT	33±30%	1KHz,0.1V	0.0648	3.0
CDRI127-390NT	39±30%	1KHz,0.1V	0.0729	2.75
CDRI127-470NT	47±30%	1KHz,0.1V	0.10	2.50
CDRI127-560NT	56±30%	1KHz,0.1V	0.11	2.35
CDRI127-680NT	68±30%	1KHz,0.1V	0.14	2.10

CDRI127-820NT	82±30%	1KHz,0.1V	0.02	1.95
CDRI127-101NT	100±30%	1KHz,0.1V	0.22	1.70
CDRI127-121NT	120±30%	1KHz,0.1V	0.25	1.60
CDRI127-151NT	150±30%	1KHz,0.1V	0.28	1.42
CDRI127-181NT	180±30%	1KHz,0.1V	0.35	1.30
CDRI127-221NT	220±30%	1KHz,0.1V	0.39	1.16
CDRI127-271NT	270±30%	1KHz,0.1V	0.56	1.06
CDRI127-331NT	330±30%	1KHz,0.1V	0.64	0.95
CDRI127-391NT	390±30%	1KHz,0.1V	0.70	0.88
CDRI127-471NT	470±30%	1KHz,0.1V	0.98	0.79
CDRI127-561NT	560±30%	1KHz,0.1V	1.07	0.73
CDRI127-681NT	680±30%	1KHz,0.1V	1.46	0.67
CDRI127-821NT	820±30%	1KHz,0.1V	1.64	0.60
CDRI127-102NT	1000±30%	1KHz,0.1V	1.82	0.55

- ※1: All test data is referenced to 20℃ ambient;
- ※2: Rated current: Isat or Irms, whichever is smaller;
- ※3: Isat: DC current at which the inductance drops approximate 30% from its value without current;
- ※4: Irms:DC current that causes the temperature rise(△T=40℃) from 20℃ ambient.

PACKAGING

Series	Quantity (pcs/reel)	Series	Quantity (pcs/reel)	Series	Quantity (pcs/reel)
CDRI62	1000	CDRI74	1000	CDRI127	500
CDRI64	1000	CDRI124	750		
CDRI73	1000	CDRI125	500		