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[Sumida Corporation](#)

[CDR125NP-100MC](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



Power Inductors <SMD Type: CDR Series>

Type: CDR125

◆ **Product Description**

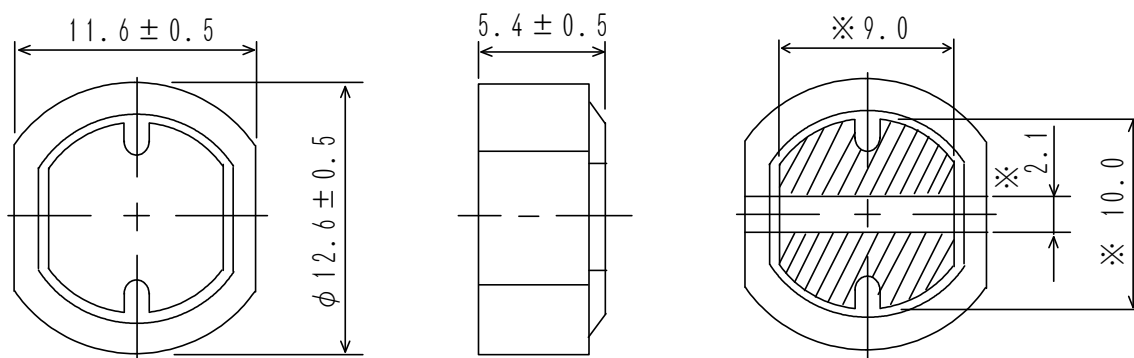
- 13.1 × 12.1mm Max.(L × W), 5.9mm Max. Height.
- Inductance range: 10 ~ 820 μ H.
- Rated current range: 0.36 ~ 2.65A .
- In addition to the standards versions shown here,
custom inductors are also available to meet your exact requirements.



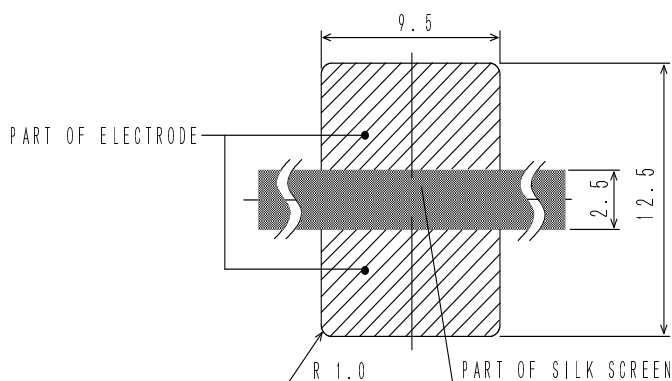
◆ **Feature**

- Magnetically shielded construction.
- Storage temperature range: -40°C ~ +100°C.
- Operating temperature range: -40°C ~ +100°C (Including coil's self temperature rise).
- Ideally used in Notebook PC ,LCD TV ,Game machine ,HDD,DSC/DVC, etc as DC-DC converter inductors.
- RoHS compliance.

◆ **Dimensions (mm)**



◆ **Land Pattern (mm)**





Power Inductors <SMD Type: CDR Series>

Type: CDR125

◆ **Specification**

Part name	Stamp	Inductance (μ H) ※ 1	D.C.R.(Ω) [Max.] (at 20°C)	Rated Current (A) ※ 2	S.R.F. (MHz) [Typ.]
CDR125NP-100M□	100M	10 $\pm$ 20%	0.05	2.65	24.2
CDR125NP-120M□	120M	12 $\pm$ 20%	0.05	2.50	21.2
CDR125NP-150M□	150M	15 $\pm$ 20%	0.06	2.45	18.9
CDR125NP-180M□	180M	18 $\pm$ 20%	0.06	2.40	16.1
CDR125NP-220M□	220M	22 +20% / -15%	0.07	2.20	15.2
CDR125NP-270M□	270M	27 +20% / -15%	0.08	2.00	13.9
CDR125NP-330M□	330M	33 +20% / -15%	0.10	1.80	12.8
CDR125NP-390M□	390M	39 +20% / -15%	0.11	1.65	11.6
CDR125NP-470M□	470M	47 +20% / -15%	0.12	1.50	10.4
CDR125NP-560M□	560M	56 +20% / -15%	0.15	1.38	9.12
CDR125NP-680M□	680M	68 +20% / -15%	0.17	1.26	8.50
CDR125NP-820M□	820M	82 +20% / -15%	0.20	1.14	7.85
CDR125NP-101M□	101M	100 +20% / -15%	0.25	1.05	6.92
CDR125NP-121M□	121M	120 +20% / -15%	0.28	0.95	6.34
CDR125NP-151M□	151M	150 +20% / -15%	0.40	0.85	5.55
CDR125NP-181M□	181M	180 +20% / -15%	0.48	0.77	5.10
CDR125NP-221M□	221M	220 +20% / -15%	0.52	0.70	4.51
CDR125NP-271M□	271M	270 +20% / -15%	0.70	0.63	4.37
CDR125NP-331M□	331M	330 +20% / -15%	0.80	0.57	3.90
CDR125NP-391M□	391M	390 +20% / -15%	1.08	0.52	3.55
CDR125NP-471M□	471M	470 +20% / -15%	1.20	0.48	3.25
CDR125NP-561M□	561M	560 +20% / -15%	1.34	0.44	2.94
CDR125NP-681M□	681M	680 +20% / -15%	1.78	0.40	2.64
CDR125NP-821M□	821M	820 +20% / -15%	2.00	0.36	2.42

※ **Description of part name**

CDR125NP-100M□
 └─ B Box
 └─ C Carrier Tape

※1: Measuring frequency: 10 μ H $\sim$ 82 μ H ; at 2.52 MHz
 100 μ H $\sim$ 820 μ H ; at 1 kHz

※2: Rated current: The D.C. current at which the inductance decreases to 75%(10 μ H $\sim$ 18 μ H) and 80% (22 μ H $\sim$ 820 μ H) of it's initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=20^{\circ}\text{C}$).