

## Excellent Integrated System Limited

Stocking Distributor

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[Sumida Corporation](#)  
[CDRH10D48/ANP-100MC](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



**Power Inductors <SMD Type: CDRH Series>**

**Type: CDRH10D48/AA**

**Under Development**

◆ **Product Description**

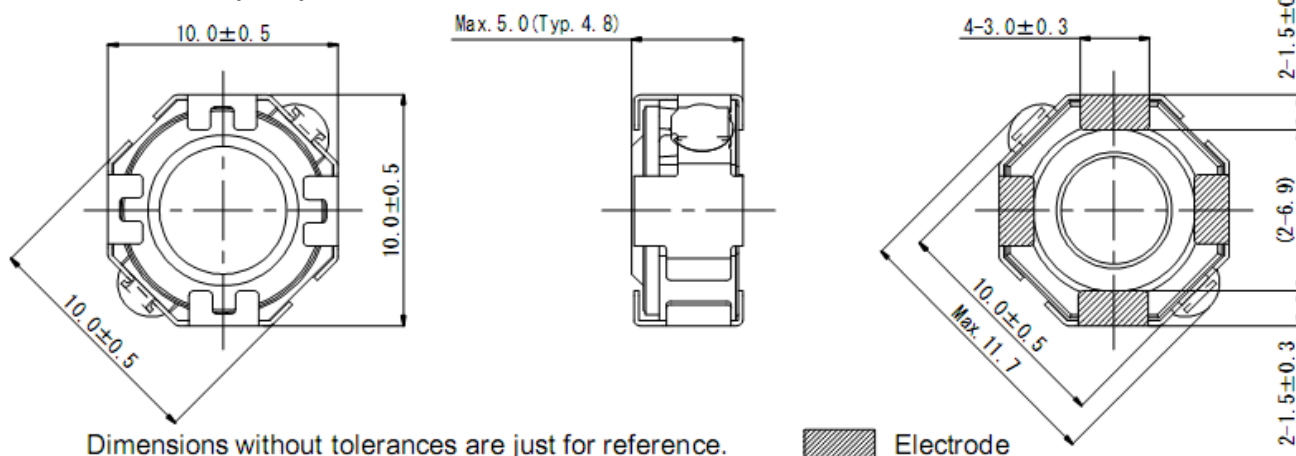
- 10.5× 10.5mm Max.(L×W), 5.0mm Max. Height.
- Inductance range: 10 μ H~1.0mH.
- Rated current range: 0.20~2.87A.
- Custom design is available.



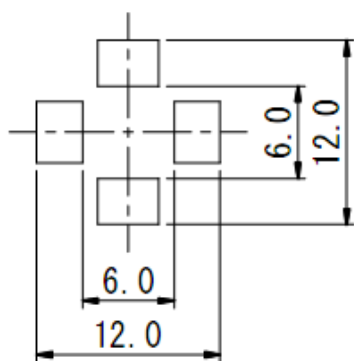
◆ **Feature**

- Magnetically shielded construction.
- Storage temperature range: -40°C~+85°C.
- Operating temperature range: -40°C~+150°C .
- High temperature product, Used in automotive.
- RoHS compliance.

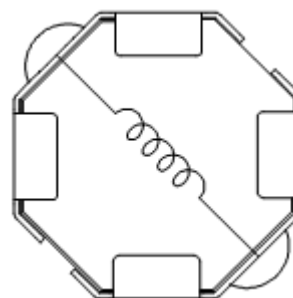
◆ **Dimensions (mm)**



◆ **Land Pattern (mm)**



◆ **Schematics(Bottom)**



Resist the bottom before mounting.



**Power Inductors <SMD Type: CDRH Series>**

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◆ Specification

Part Name	Stamp	Inductance ( $\mu$ H) ※1	D.C.R.(m $\Omega$ ) Max.(Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 150°C	
CDRH10D48/AANP-100N	100	10 $\pm$ 30%	37(29)	3.10	2.55	2.87
CDRH10D48/AANP-150N	150	15 $\pm$ 30%	49(39)	2.49	2.05	2.43
CDRH10D48/AANP-220N	220	22 $\pm$ 30%	72(57)	2.03	1.66	1.96
CDRH10D48/AANP-330N	330	33 $\pm$ 30%	122(97)	1.73	1.40	1.54
CDRH10D48/AANP-470N	470	47 $\pm$ 30%	160(128)	1.42	1.17	1.25
CDRH10D48/AANP-680N	680	68 $\pm$ 30%	224(179)	1.13	0.94	0.99
CDRH10D48/AANP-101N	101	100 $\pm$ 30%	390(312)	0.97	0.80	0.75
CDRH10D48/AANP-151N	151	150 $\pm$ 30%	580(464)	0.77	0.64	0.62
CDRH10D48/AANP-221N	221	220 $\pm$ 30%	847(677)	0.69	0.55	0.51
CDRH10D48/AANP-331N	331	330 $\pm$ 30%	1370(1090)	0.50	0.42	0.40
CDRH10D48/AANP-471N	471	470 $\pm$ 30%	2220(1770)	0.45	0.35	0.30
CDRH10D48/AANP-681N	681	680 $\pm$ 30%	2720(2170)	0.36	0.29	0.28
CDRH10D48/AANP-102N	102	1000 $\pm$ 30%	4800(3840)	0.30	0.24	0.20

※1. Measuring condition: at 100kHz; 1.0V.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The DC current at which the temperature rise is  $\Delta t=30^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ ).