

# CDRH5D28RBH125NP-220MC Datasheet



DiGi Electronics Part Number	CDRH5D28RBH125NP-220MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDRH5D28RBH125NP-220MC
Description	FIXED IND 22UH 900MA 266MOHM SMD
Detailed Description	22 $\mu$ H Shielded Inductor 900 mA 266mOhm Max No nstandard

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## Purchase and inquiry

Manufacturer Product Number:

CDRH5D28RBH125NP-220MC

Series:

CDRH5D28RB/H125

Type:

-

Inductance:

22  $\mu$ H

Current Rating (Amps):

900 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.118" (3.00mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

1.7A

DC Resistance (DCR):

266mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.236" L x 0.232" W (6.00mm x 5.90mm)

## Environmental & Export classification

RoHS Status:

RoHS Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8504.50.8000

# SMD Power Inductor

## CDRH5D28RB/H125



Recommended Type

### Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 6.5x6.2 x3.0 mm Max.
- Product weight:0.35g(Ref.)
- Moisture Sensitivity Level: 1
- Qualification to AEC-Q200



### Environmental Data

- Operating Temperature: -40°C to +125°C (including self-heating)
- Storage temperature range: -40°C~+125°C

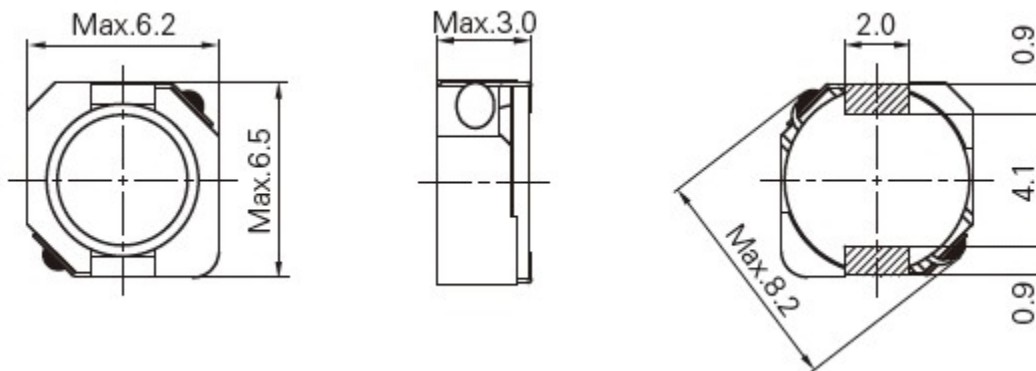
### Packaging

- Carrier tape and reel packaging

### Applications

- High temp and high reliability automotive applications

### Dimension - [mm]

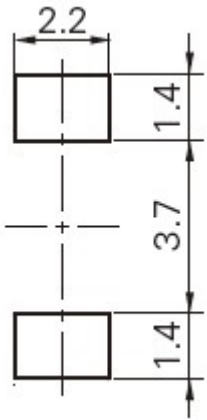


# SMD Power Inductor

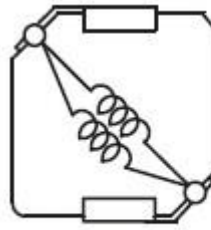
## CDRH5D28RB/H125



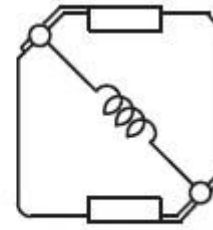
### Recommended Land pattern - [mm]



### Wire Connection



(1.0µH - 10µH)



(15µH - 100µH)

## SMD Power Inductor

CDRH5D28RB/H125



Recommended Type

## Electrical Characteristics

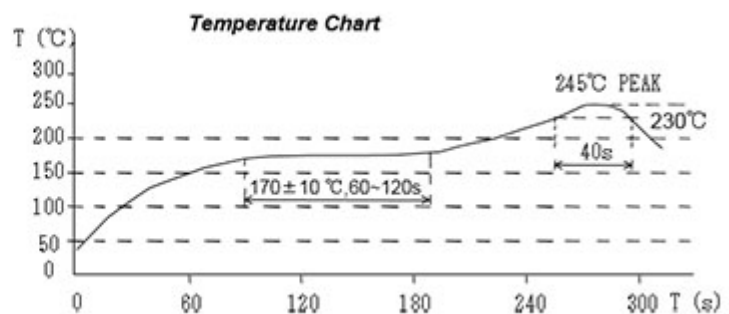
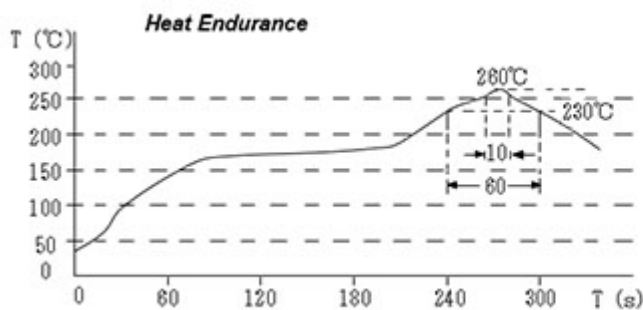
Part Number	Inductance [Within] ( $\mu$ H) ※1	D.C.R. at 20°C Max.(Typ.) (m $\Omega$ )	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH5D28RBH125NP-1R0PC	1.00 $\pm$ 25%	17.00 (13.50)	7.10 (9.00)	4.10 (4.70)
CDRH5D28RBH125NP-1R4PC	1.40 $\pm$ 25%	20.00 (16.00)	6.50 (7.55)	3.60 (4.15)
CDRH5D28RBH125NP-1R8PC	1.80 $\pm$ 25%	22.50 (18.00)	5.70 (6.60)	3.40 (4.00)
CDRH5D28RBH125NP-2R4PC	2.40 $\pm$ 25%	27.00 (21.50)	5.30 (5.90)	3.20 (3.65)
CDRH5D28RBH125NP-3R3PC	3.30 $\pm$ 25%	35.50 (28.50)	4.30 (4.85)	2.72 (3.10)
CDRH5D28RBH125NP-4R7PC	4.70 $\pm$ 25%	54.00 (43.00)	3.70 (4.18)	2.20 (2.50)
CDRH5D28RBH125NP-6R8PC	6.80 $\pm$ 25%	77.50 (62.00)	3.08 (3.42)	1.80 (2.00)
CDRH5D28RBH125NP-100MC	10.00 $\pm$ 20%	121 (97.00)	2.46 (2.78)	1.40 (1.58)
CDRH5D28RBH125NP-150MC	15.00 $\pm$ 20%	148 (118)	2.08 (2.32)	1.24 (1.40)
CDRH5D28RBH125NP-220MC	22.00 $\pm$ 20%	266 (213)	1.70 (1.88)	0.90 (1.10)
CDRH5D28RBH125NP-330MC	33.00 $\pm$ 20%	334 (267)	1.41 (1.59)	0.80 (0.92)
CDRH5D28RBH125NP-470MC	47.00 $\pm$ 20%	500 (400)	1.16 (1.32)	0.64 (0.73)
CDRH5D28RBH125NP-680MC	68.00 $\pm$ 20%	685 (548)	0.95 (1.11)	0.54 (0.62)
CDRH5D28RBH125NP-101MC	100 $\pm$ 20%	1020 (815)	0.80 (0.90)	0.46 (0.53)

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

## Solder Reflow Condition



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

# SMD Power Inductor

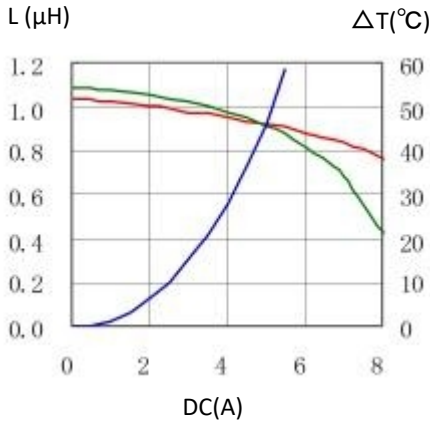
## CDRH5D28RB/H125



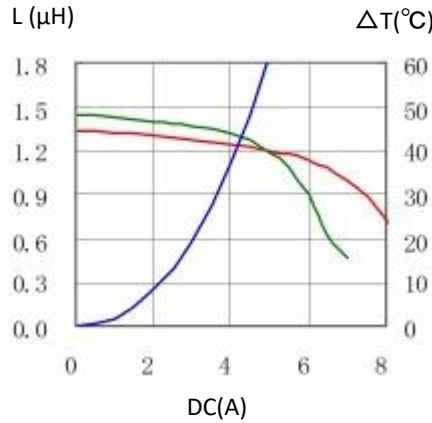
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

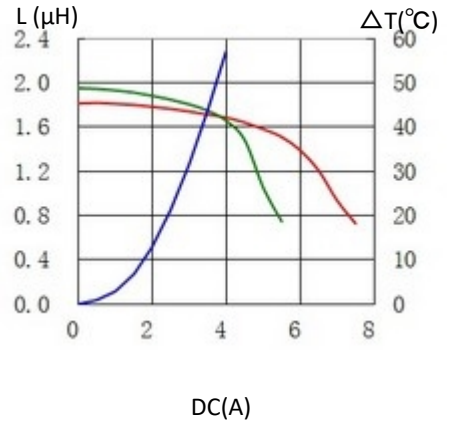
1. CDRH5D28RBH125NP-1R0PC



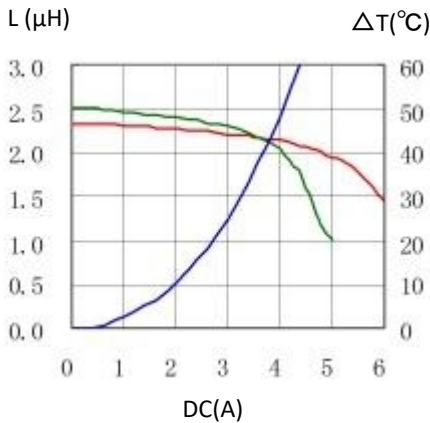
2. CDRH5D28RBH125NP-1R4PC



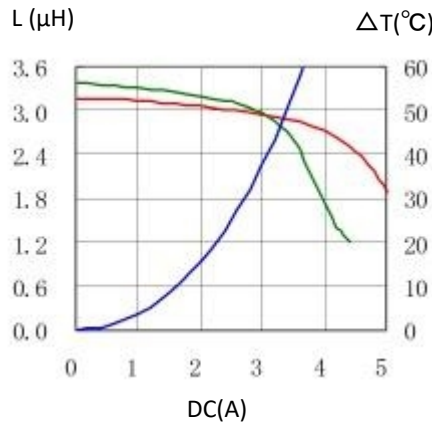
3. CDRH5D28RBH125NP-1R8PC



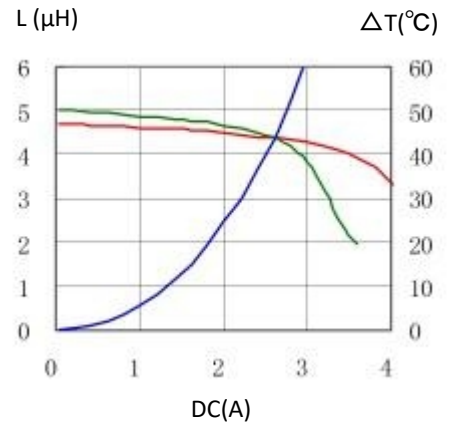
4. CDRH5D28RBH125NP-2R4PC



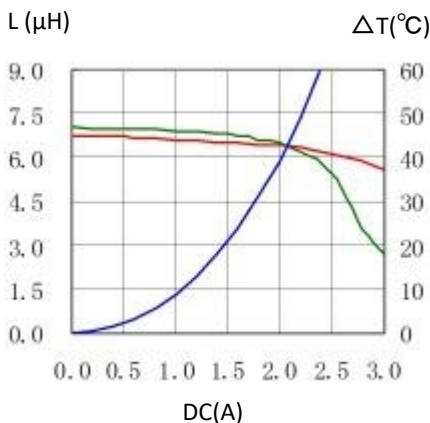
5. CDRH5D28RBH125NP-3R3PC



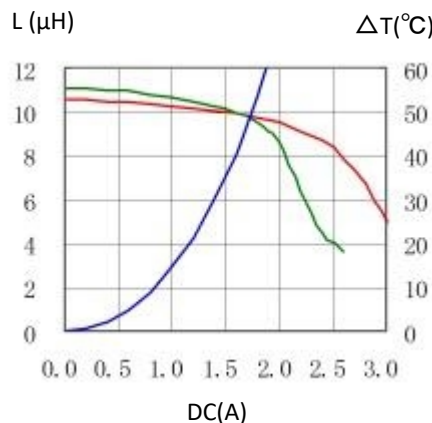
6. CDRH5D28RBH125NP-4R7PC



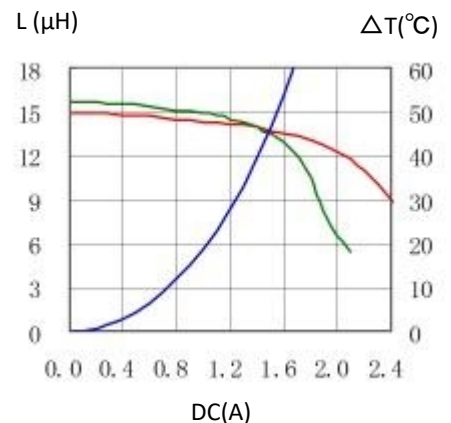
7. CDRH5D28RBH125NP-6R8PC



8. CDRH5D28RBH125NP-100MC



9. CDRH5D28RBH125NP-150MC



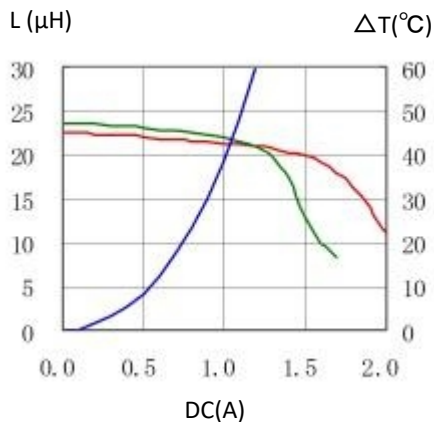
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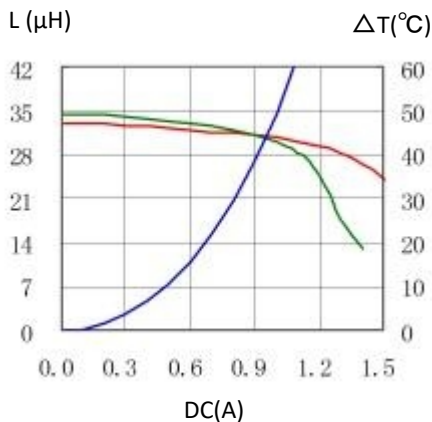
## CDRH5D28RB/H125



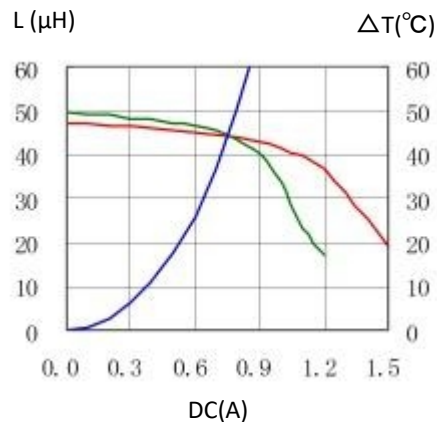
10. CDRH5D28RBH125NP-220MC



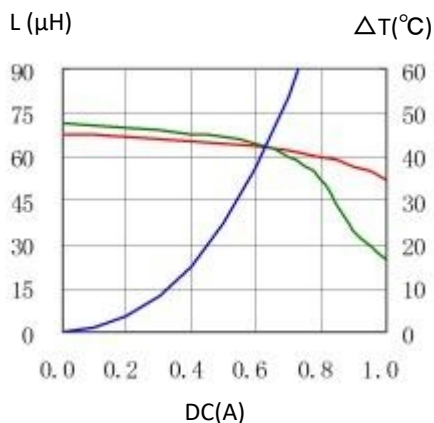
11. CDRH5D28RBH125NP-330MC



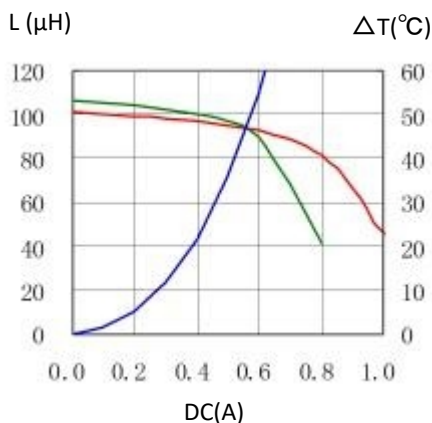
12. CDRH5D28RBH125NP-470MC



13. CDRH5D28RBH125NP-680MC



14. CDRH5D28RBH125NP-101MC



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