CDH30D14H125NP-5R6MC Datasheet

DiGi Electronics Part Number	CDH30D14H125NP-5R6MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDH30D14H125NP-5R6MC
Description	FIXED IND 5.6UH 900MA 250MOHM SM
Detailed Description	5.6 µH Unshielded Inductor 900 mA 250mOhm Non standard

https://www.DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CDH30D14H125NP-5R6MC	Sumida America Components Inc.
Series:	Product Status:
CDH30D14/H125	Active
Type:	Material - Core:
-	Ferrite
Inductance:	Tolerance:
5.6 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
900 mA	1.1A
Shielding:	DC Resistance (DCR):
Unshielded	250mOhm
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
AEC-Q200	-40°C ~ 125°C
Inductance Frequency - Test:	Features:
100 kHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.118" L x 0.118" W (3.00mm x 3.00mm)
Height - Seated (Max):	
0.059" (1.50mm)	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS Compliant	1 (Unlimited)
ECCN:	HTSUS:
EAR99	8504.50.8000

SMD Power Inductor

CDH30D14/H125

Recommended Type

Description

- Ferrite drum core construction
- Magnetically unshielded
- L×W×H: 3.2×3.2×1.5 mm Max.
- Product weight: 48mg(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℃～+125℃

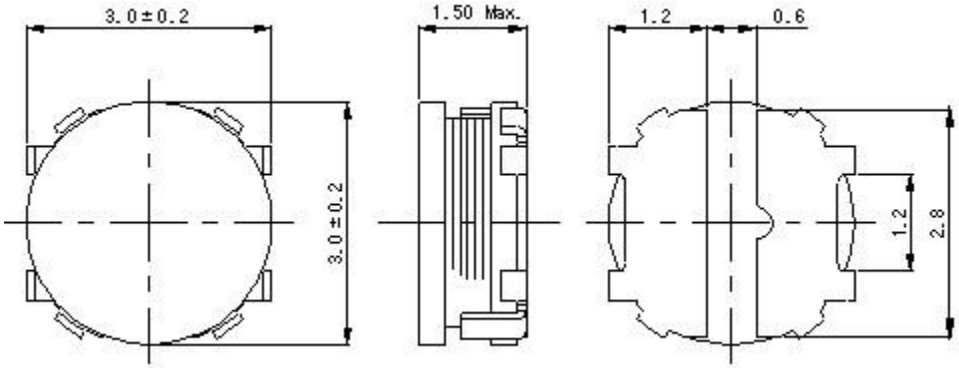
Packaging

- Carrier tape and reel packaging

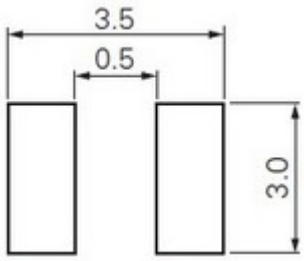
Applications

- High temp and high reliability automotive applications

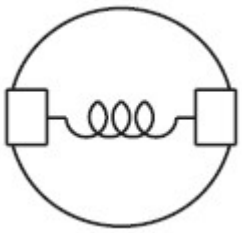
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



SMD Power Inductor

CDH30D14/H125

Recommended Type

Electrical Characteristics

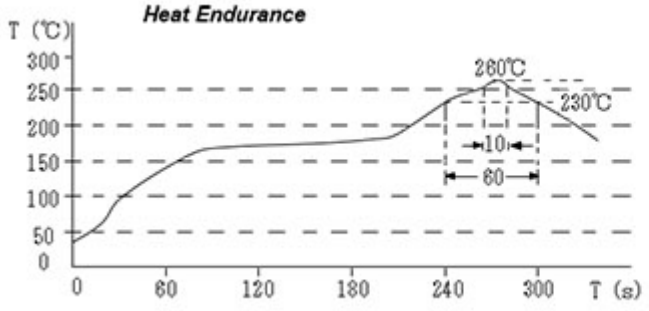
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max.(Typ.) (mΩ)	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20℃	125℃	
CDH30D14H125NP-1R0MC	1.00 ± 20%	55.00 ± 25%	2.70 (3.65)	2.20 (2.85)	1.97 (2.30)
CDH30D14H125NP-2R2MC	2.20 ± 20%	105 ± 25%	1.90 (2.46)	1.50 (1.93)	1.40 (1.60)
CDH30D14H125NP-3R3MC	3.30 ± 20%	155 ± 25%	1.50 (1.86)	1.30 (1.52)	1.12 (1.30)
CDH30D14H125NP-4R7MC	4.70 ± 20%	200 ± 25%	1.30 (1.64)	1.10 (1.34)	1.05 (1.20)
CDH30D14H125NP-5R6MC	5.60 ± 20%	250 ± 25%	1.10 (1.43)	0.95 (1.15)	0.77 (0.90)
CDH30D14H125NP-6R8MC	6.80 ± 20%	350 ± 25%	1.00 (1.33)	0.80 (1.07)	0.68 (0.78)
CDH30D14H125NP-100MC	10.00 ± 20%	520 ± 25%	0.95 (1.12)	0.70 (0.85)	0.57 (0.64)

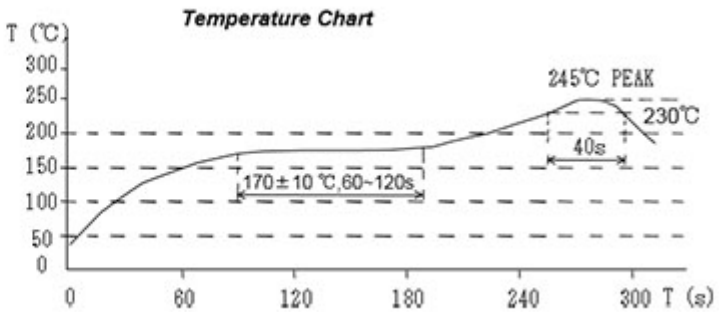
※1 Measuring frequency inductance at 100kHz,1V.

※2 Allowable D.C. bias current: the value of D.C. current when inductance is above 70% of its initial value.

※3 Temperature rise current: the actual value of D.C. current when temperature of coil increased △T=40℃(Ta=20℃).

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

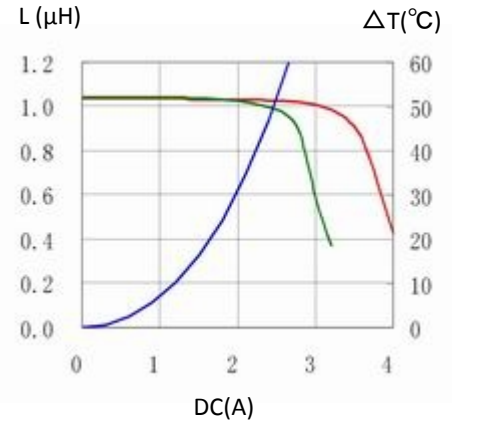
CDH30D14/H125

Recommended Type

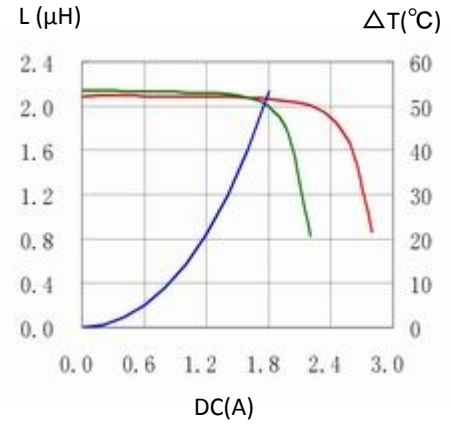
Saturation Current & Temperature Rise Graph

L (20°C) L (125°C) ΔT

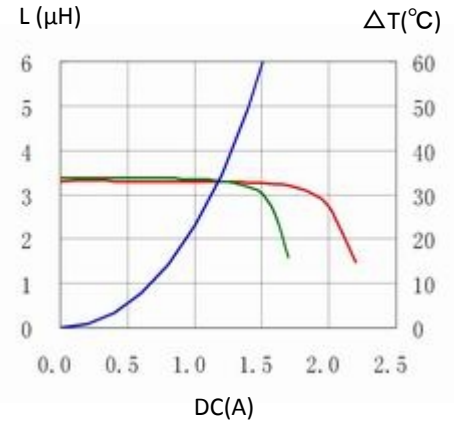
1. CDH30D14H125NP-1R0MC



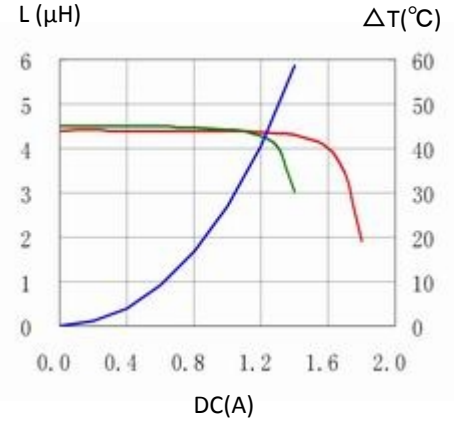
2. CDH30D14H125NP-2R2MC



3. CDH30D14H125NP-3R3MC



4. CDH30D14H125NP-4R7MC



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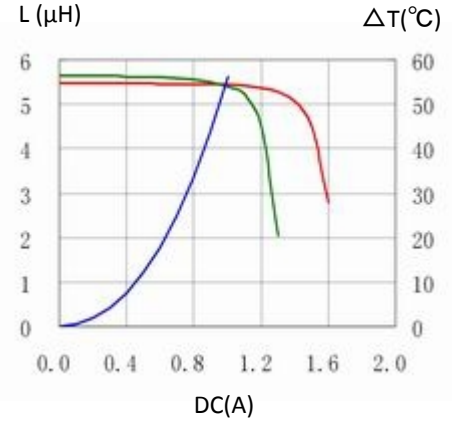
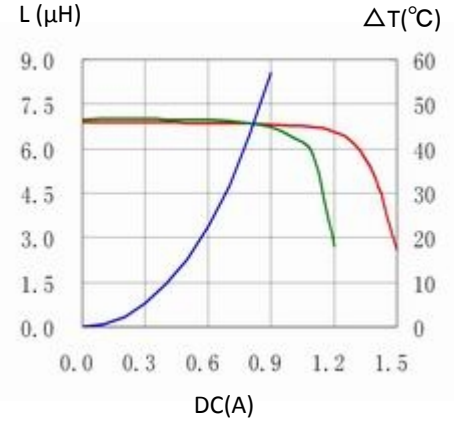
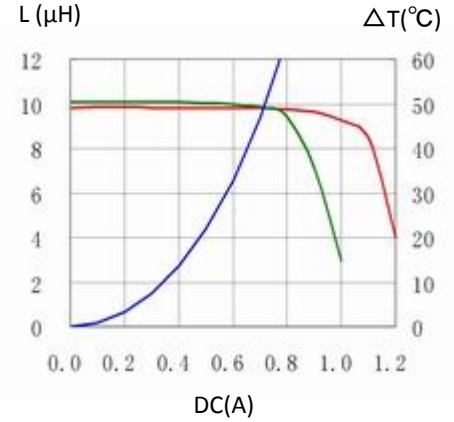


6. CDH30D14H125NP-6R8MC



7. CDH30D14H125NP-100MC



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SMD Power Inductor

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Recommended Type

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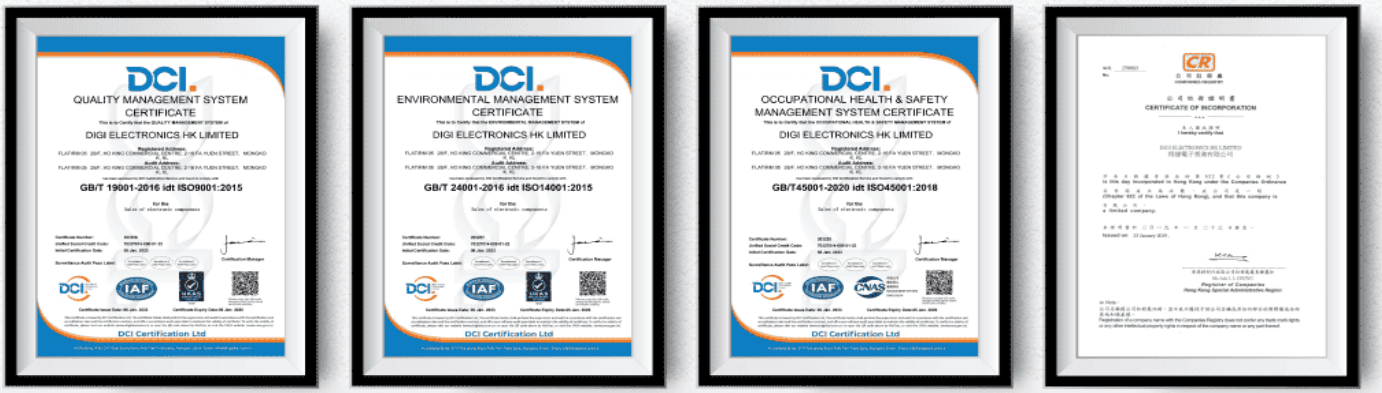

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