

# SMD Power Inductor CDH25D14



*Under Development*

RoHS

Halogen  
Free



## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 2.6 × 2.1 × 1.5 mm Max.
- Product weight: 0.03 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

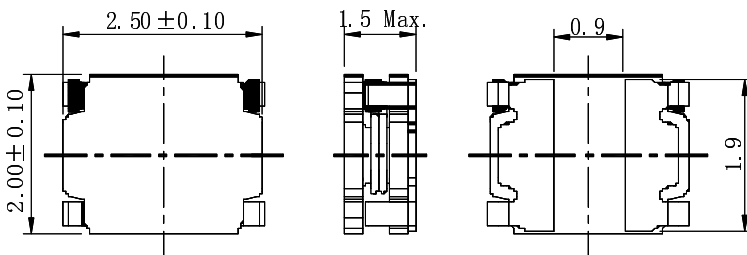
## Packaging

- Carrier tape and reel packaging

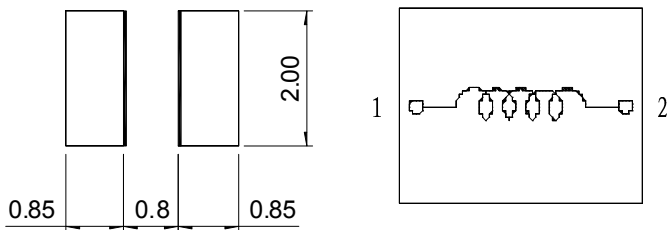
## Applications

- Ideally used in Mobile Phone, PDA, MP3, DSC/ DVC, HDD, etc as DC-DC converter inductors.

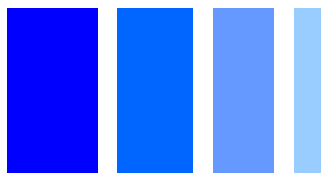
## Dimension - [mm]



## Land pattern and Schematics - [mm]



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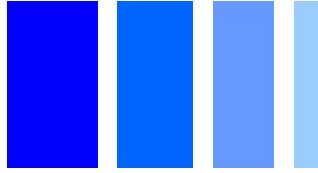
## Electrical Characteristics

Part name	Stamp	Inductance [ $\mu$ H] 1MHz	D.C.R. ( $\Omega$ ) [Max.] (Typ.) (at 20°C)	Saturation current (A) ※1		Temperature rise current (A) ※2
				(at 20°C)	(at 105°C)	
CDH25D14HF-R24NC	A	0.24 $\pm$ 30%	0.050(0.035)	4.15(5.20)	3.30(4.10)	2.20(2.50)
CDH25D14HF-R33NC	B	0.33 $\pm$ 30%	0.060(0.045)	3.40(4.25)	2.85(3.55)	1.90(2.20)
CDH25D14HF-R47NC	C	0.47 $\pm$ 30%	0.065(0.055)	3.05(3.80)	2.55(3.20)	1.70(1.95)
CDH25D14HF-R68NC	D	0.68 $\pm$ 30%	0.075(0.060)	2.70(3.40)	2.20(2.75)	1.55(1.80)
CDH25D14HF-R82NC	E	0.82 $\pm$ 30%	0.085(0.070)	2.50(3.10)	2.10(2.60)	1.50(1.70)
CDH25D14HF-1R0NC	F	1.0 $\pm$ 30%	0.095(0.075)	2.25(2.80)	1.85(2.30)	1.45(1.65)
CDH25D14HF-1R5NC	G	1.5 $\pm$ 30%	0.13(0.10)	1.85(2.30)	1.50(1.90)	1.15(1.30)
CDH25D14HF-2R2MC	J	2.2 $\pm$ 20%	0.18(0.14)	1.50(1.90)	1.25(1.55)	0.95(1.10)
CDH25D14HF-3R3MC	K	3.3 $\pm$ 20%	0.21(0.17)	1.30(1.60)	1.05(1.30)	0.75(0.90)
CDH25D14HF-4R7MC	L	4.7 $\pm$ 20%	0.30(0.24)	1.10(1.40)	0.90(1.15)	0.65(0.75)
CDH25D14HF-6R8MC	M	6.8 $\pm$ 20%	0.52(0.42)	0.90(1.15)	0.75(0.90)	0.55(0.60)
CDH25D14HF-100MC	N	10 $\pm$ 20%	0.67(0.53)	0.75(0.95)	0.60(0.75)	0.40(0.50)
CDH25D14HF-150MC	P	15 $\pm$ 20%	1.05(0.83)	0.60(0.75)	0.50(0.65)	0.35(0.40)
CDH25D14HF-220MC	Q	22 $\pm$ 20%	1.55(1.30)	0.50(0.60)	0.40(0.50)	0.27(0.32)
CDH25D14HF-330MC	R	33 $\pm$ 20%	2.15(1.70)	0.40(0.50)	0.30(0.40)	0.13(0.27)

※1. Saturation current: The value of D.C. current when the inductance decreases to 70% of its nominal value.

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

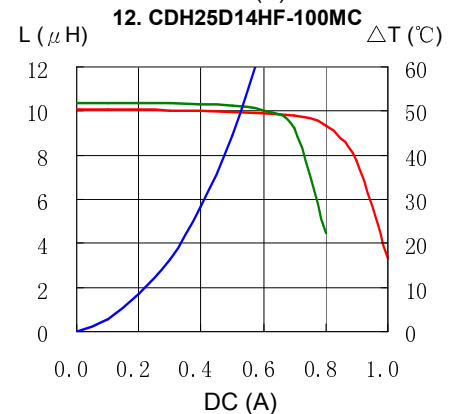
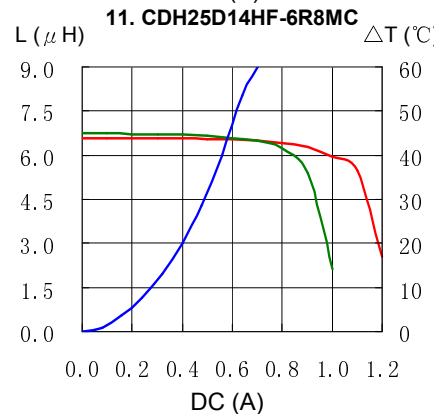
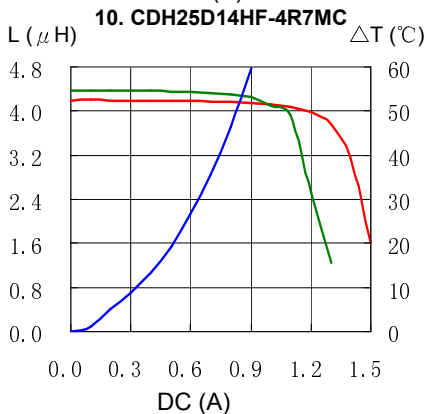
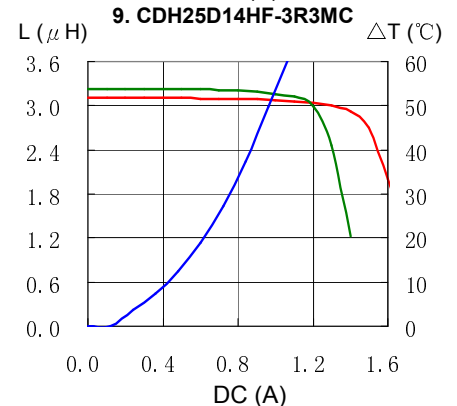
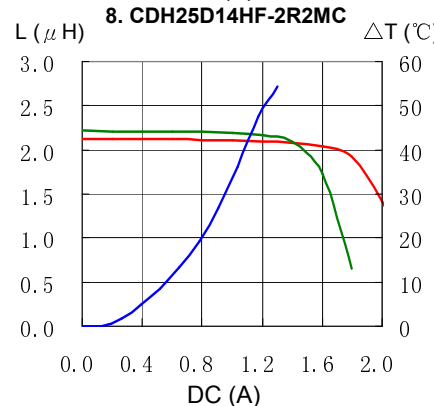
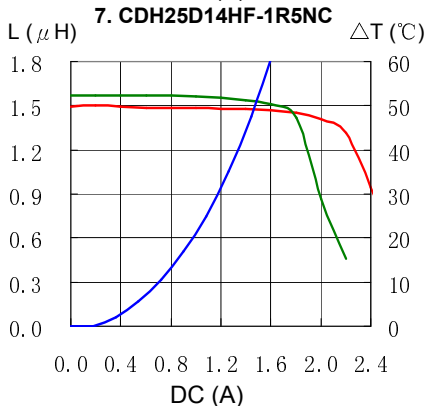
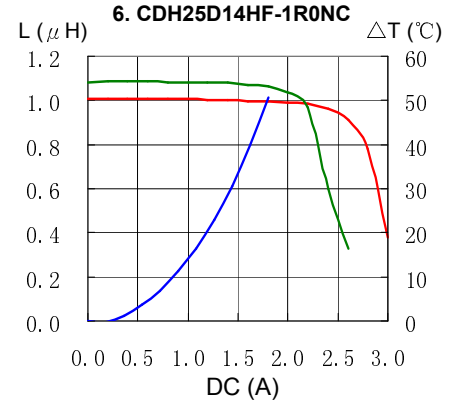
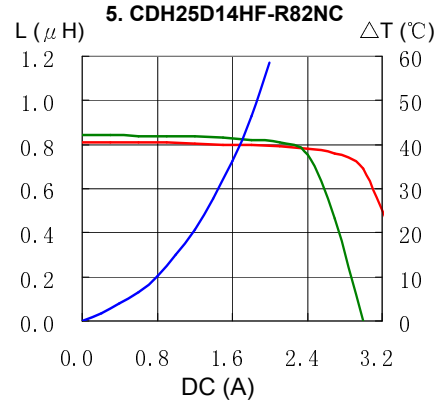
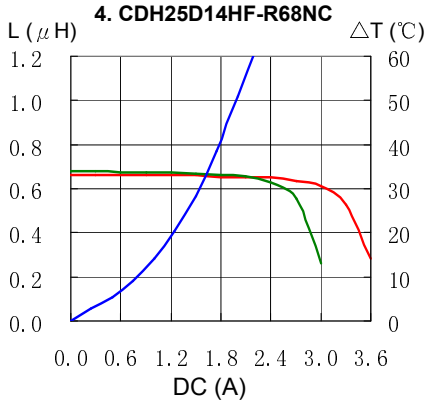
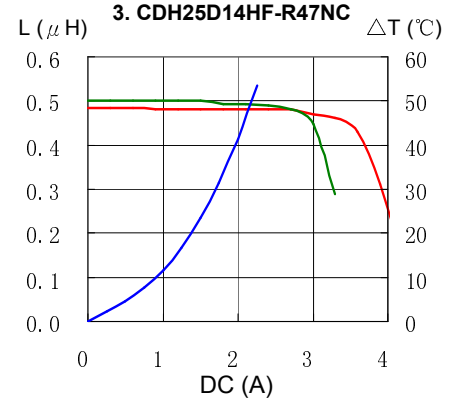
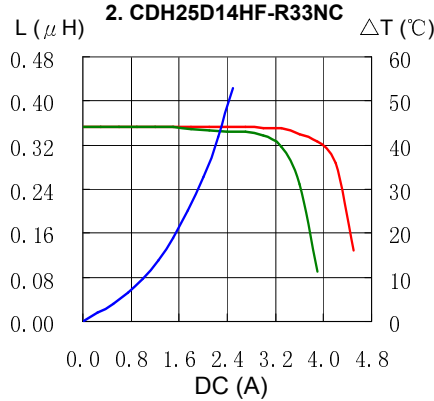
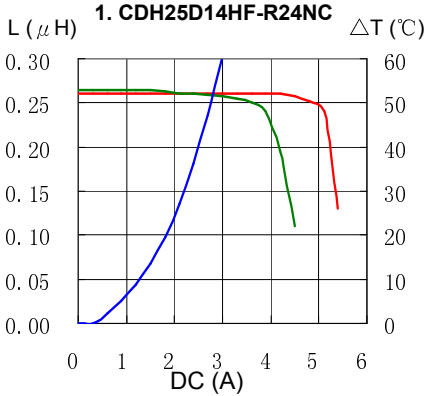
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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



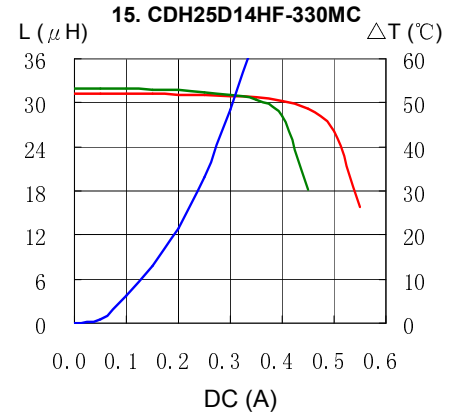
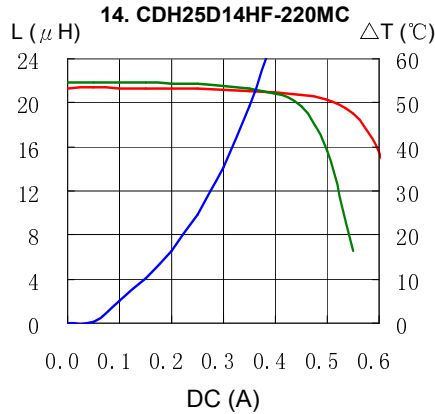
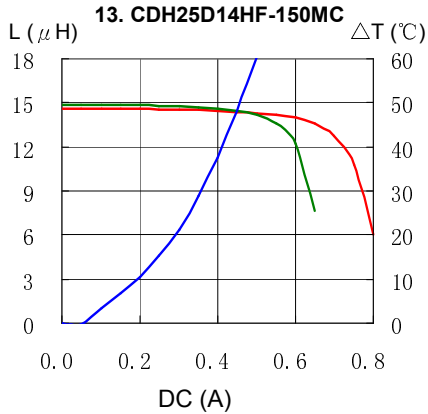
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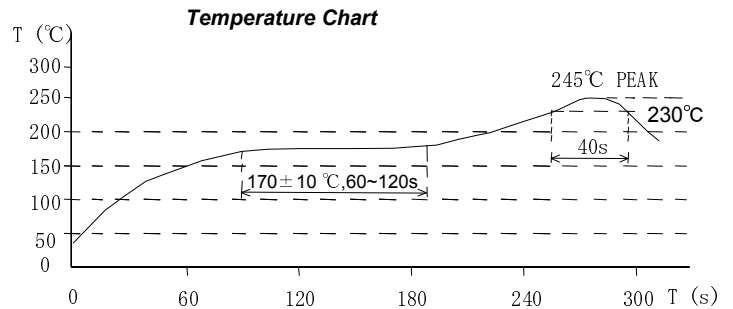
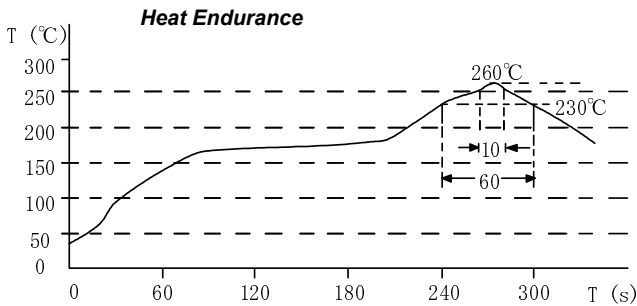
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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



## Solder Reflow Condition



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