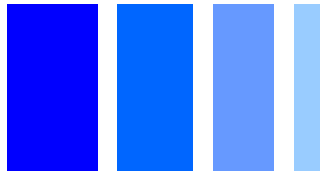


# SMD Power Inductor CDBH10D43



*Under Development*



## Description

- Ferrite core construction
- Magnetically shielded
- L × W × H: 10.5 × 10.0 × 4.5 mm Max.
- Product weight: 1.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## 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.

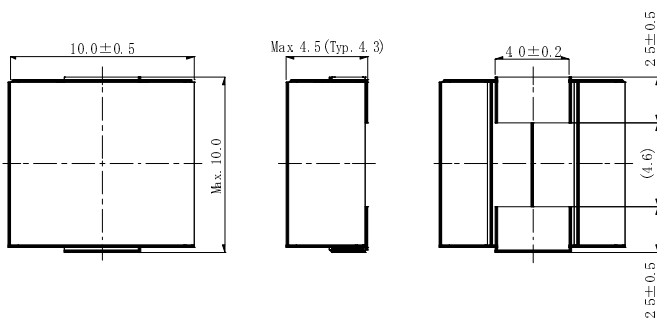
## Packaging

- Carrier tape and reel packaging.

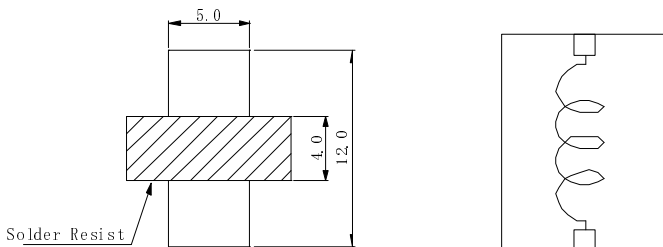
## Applications

- Ideally used in the multiple chopper type DC/DC converters for servers and various decentralized power supply.

## Dimension - inch [mm]



## Land pattern and Schematics - inch [mm]



## Electrical Characteristics

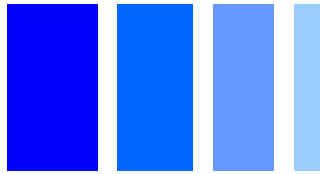
	Standard	Condition
Inductance ※1	0.15 μ H ± 30 % (Within)	at 100kHz
D.C.R.	0.63m Ω [Max.] (Typ. 0.50m Ω )	at 20°C
The saturation current ※2	29A	at 20°C
	25A	at 105°C
The temperature rise current ※3	55A	

※1 Inductance measuring condition: at 100 kHz.

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

※3 Temperature rise current: The DC current at which the temperature rise is  $\Delta T = 40^\circ\text{C}$ . ( $T_a = 20^\circ\text{C}$ )

# SMD Power Inductor CDBH10D43

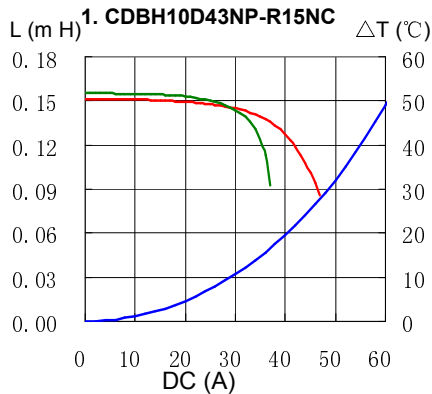


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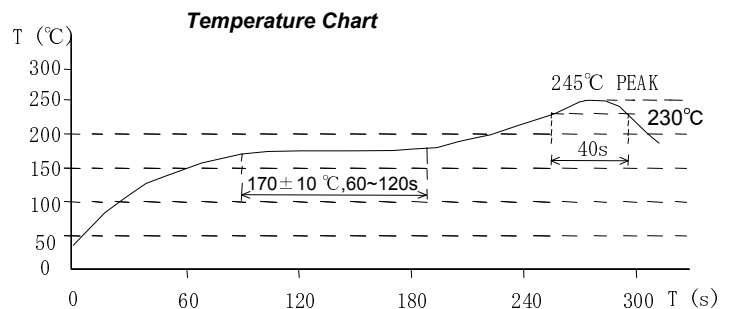
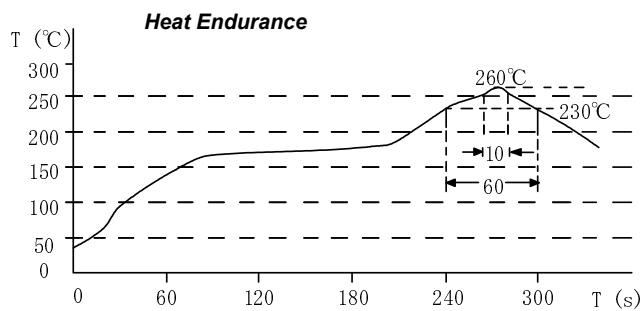
*Under Development*

## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



## Solder Reflow Condition



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