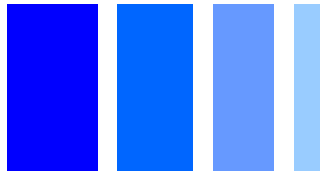


# SMD Power Inductor CDBH8D38



*Under Development*



## Description

- Ferrite core construction
- Magnetically shielded
- L × W × H: 9.5 × 8.8 × 4.0 mm Max.
- Product weight: 1.24g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C
- Solder reflow temperature: 260 °C peak.

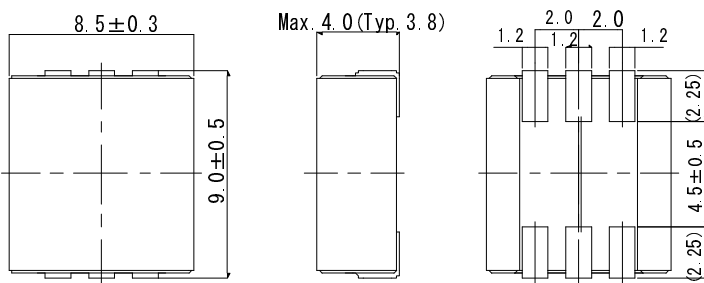
## Packaging

- Carrier tape and reel packaging.

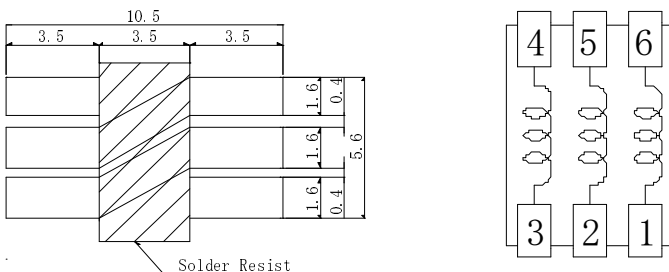
## Applications

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

## Dimension - inch [mm]



## Land pattern and Schematics - inch [mm]



## Electrical Characteristics

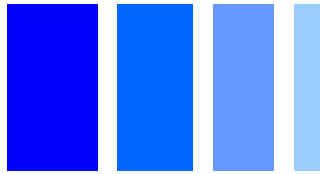
	Standard	Condition
Inductance (1-4) ※1	0.56 μH ±20% (Within)	at 1MHz (PIN connection (2,6)、(3,5))
D.C.R. (1-6)、(2-5)、(3-4)	0.90mΩ (Typ.)	at 20°C
Inductance (1-6)、(3-4)	0.09 μH(Typ.)	at 1MHz
Inductance(2-5)	0.06 μH(Typ.)	at 1MHz
The saturation current (1-4) ※2	17.0A	at 20°C (PIN connection (2,6)、(3,5))
	13.0A	at 125°C (PIN connection (2,6)、(3,5))
The temperature rise current (1-4) ※3	17.5A	(PIN connection (2,6)、(3,5))

※1 Inductance measuring condition: at 1 MHz.

※2 Saturation current: The DC current at which the inductance decreases to 75% of it's nominal value.

※3 Temperature rise current: The DC current at which the temperature rise is ΔT=40°C.(Ta=20°C)

# SMD Power Inductor CDBH8D38

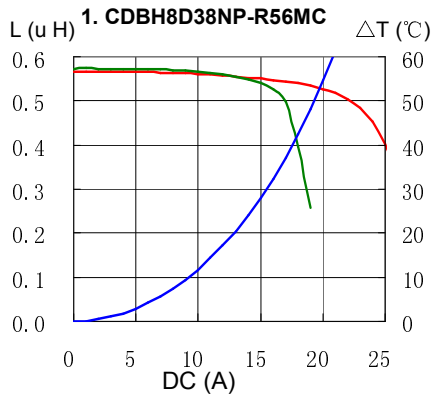


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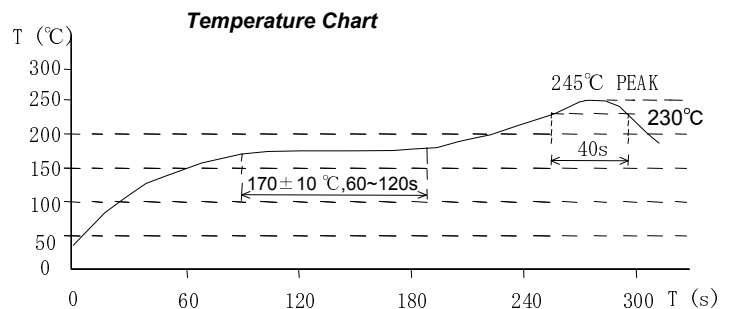
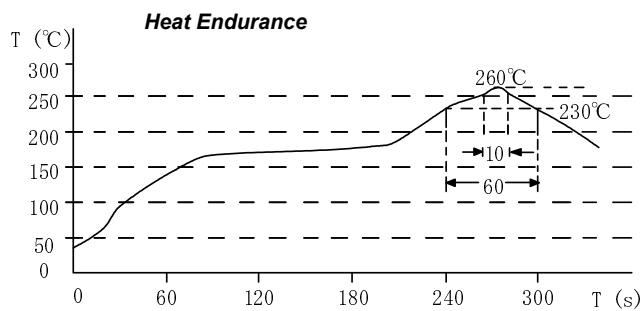
*Under Development*

## Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$



## Solder Reflow Condition



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