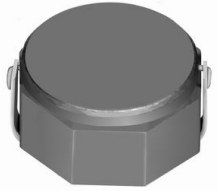




# THE DATASHEET OF CDRH8D43NP-220NC



# SMD Power Inductor CDRH8D43



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 4.5 mm Max.
- Product weight: 0.93g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

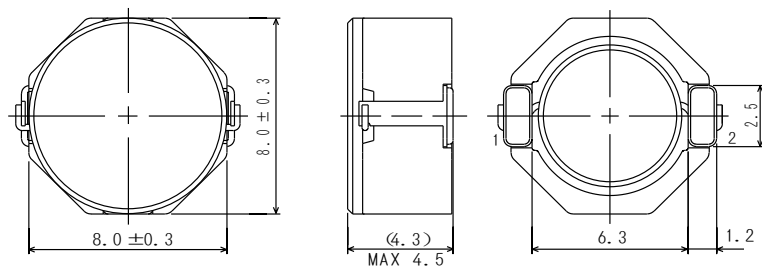
## Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

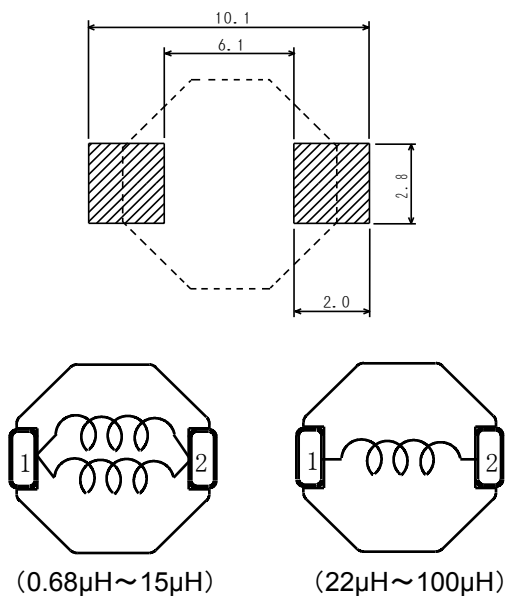
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]





### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [ within ] ※1	D.C.R. ( $\text{m}\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2 (Typ.)	Temperature Rise Current (A) ※3
CDRH8D43NP-R68NC	R68	$0.68 \pm 35\%$	9.5(7.0)	9.0(10.80)	7.60
CDRH8D43NP-1R2NC	1R2	$1.2 \pm 35\%$	12.2(9.0)	8.0(10.50)	7.00
CDRH8D43NP-2R0NC	2R0	$2.0 \pm 30\%$	14(11)	7.0(9.00)	6.30
CDRH8D43NP-3R9NC	3R9	$3.9 \pm 30\%$	19(15)	5.9(7.50)	4.90
CDRH8D43NP-4R7NC	4R7	$4.7 \pm 30\%$	22(17)	5.6(7.20)	4.60
CDRH8D43NP-6R8NC	6R8	$6.8 \pm 30\%$	25(20)	4.4(5.80)	4.30
CDRH8D43NP-100NC	100	$10 \pm 30\%$	36(29)	4.0(5.50)	3.50
CDRH8D43NP-150NC	150	$15 \pm 30\%$	53(42)	2.9(3.60)	2.55
CDRH8D43NP-220NC	220	$22 \pm 30\%$	75(60)	2.6(3.25)	2.10
CDRH8D43NP-330NC	330	$33 \pm 30\%$	125(100)	2.2(2.60)	1.55
CDRH8D43NP-470NC	470	$47 \pm 30\%$	150(120)	1.8(2.25)	1.42
CDRH8D43NP-680NC	680	$68 \pm 30\%$	240(190)	1.5(1.76)	1.15
CDRH8D43NP-101NC	101	$100 \pm 30\%$	360(290)	1.3(1.55)	0.88

※1. Inductance measuring conditions at 100kHz.

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

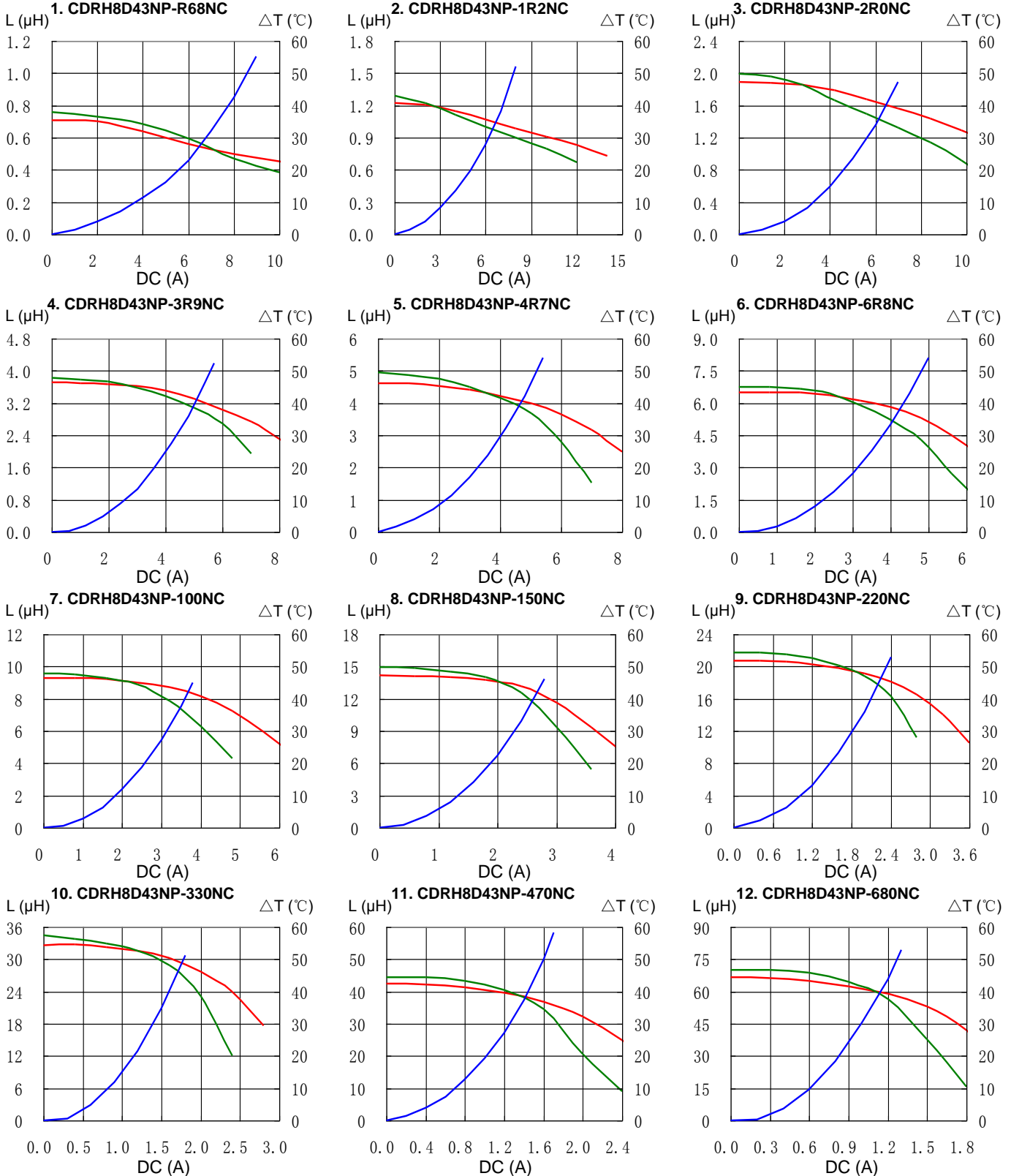
※3. Temperature rise current: The actual DC current at which the temperature rise is  $\Delta t = 40^\circ\text{C}$ . ( $T_a = 20^\circ\text{C}$ )

# SMD Power Inductor CDRH8D43



## Saturation Current & Temperature Rise Graph

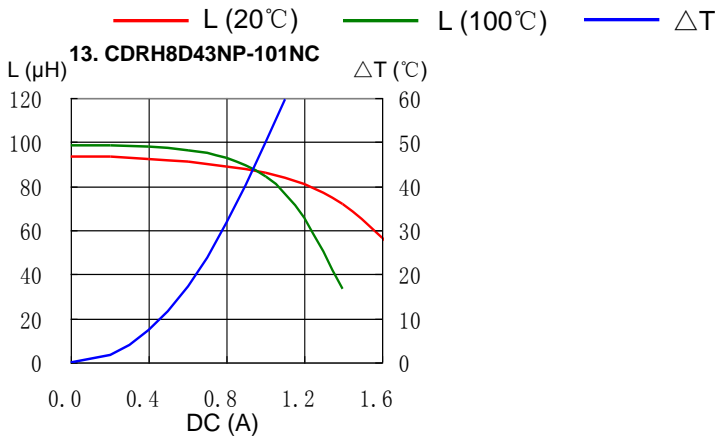
— L (20°C) — L (100°C) —  $\Delta T$



# SMD Power Inductor CDRH8D43

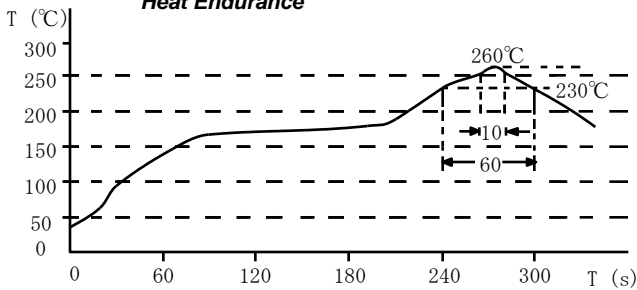


## Saturation Current & Temperature Rise Graph

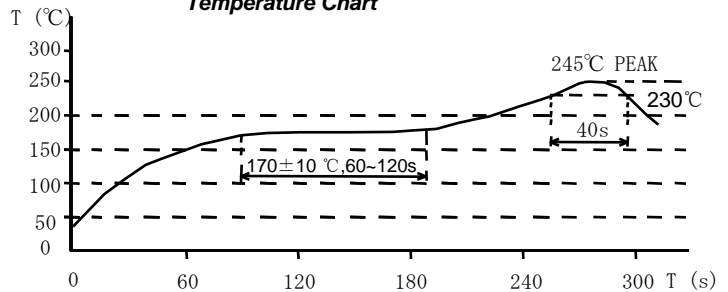


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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- ✓ Excess Inventory Management