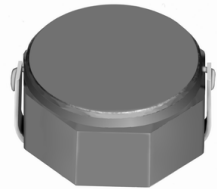


# SMD Power Inductor CDRH8D43



Halogen Free



## 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.
- Halogen Free available.

## 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.

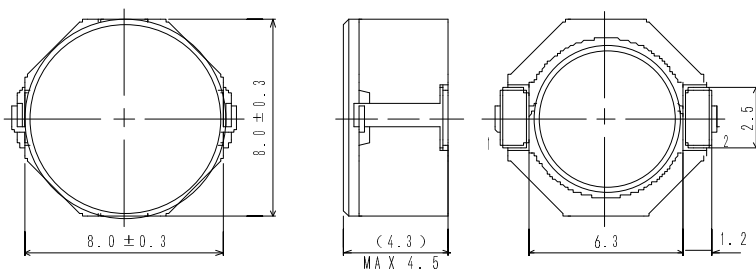
## Packaging

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

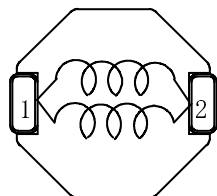
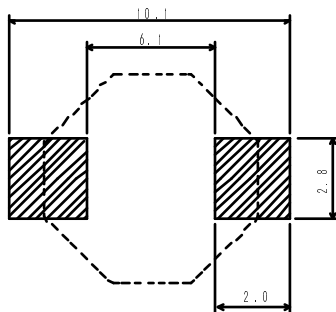
## Applications

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

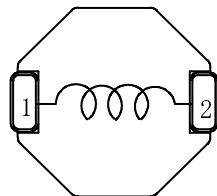
## Dimension - [mm]



## Land pattern and Schematics - [mm]



(0.68 μH ~ 15 μH)



(22 μH ~ 100 μH)

# SMD Power Inductor CDRH8D43



## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. ( $m\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH8D43NP-R68NC	R68	0.68 $\pm$ 35%	9.5(7.0)	9.0	6.9
CDRH8D43NP-1R2NC	1R2	1.2 $\pm$ 35%	12.2(9.0)	8.0	6.2
CDRH8D43NP-2R0NC	2R0	2.0 $\pm$ 30%	14(11)	7.0	5.5
CDRH8D43NP-3R9NC	3R9	3.9 $\pm$ 30%	19(15)	5.9	4.5
CDRH8D43NP-4R7NC	4R7	4.7 $\pm$ 30%	22(17)	5.6	4.1
CDRH8D43NP-6R8NC	6R8	6.8 $\pm$ 30%	25(20)	4.4	3.9
CDRH8D43NP-100NC	100	10 $\pm$ 30%	36(29)	4.0	3.2
CDRH8D43NP-150NC	150	15 $\pm$ 30%	53(42)	2.9	2.3
CDRH8D43NP-220NC	220	22 $\pm$ 30%	75(60)	2.6	1.8
CDRH8D43NP-330NC	330	33 $\pm$ 30%	125(100)	2.2	1.4
CDRH8D43NP-470NC	470	47 $\pm$ 30%	150(120)	1.8	1.3
CDRH8D43NP-680NC	680	68 $\pm$ 30%	240(190)	1.5	1.0
CDRH8D43NP-101NC	101	100 $\pm$ 30%	360(290)	1.3	0.8

※1. Inductance measuring conditions at 100kHz.

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

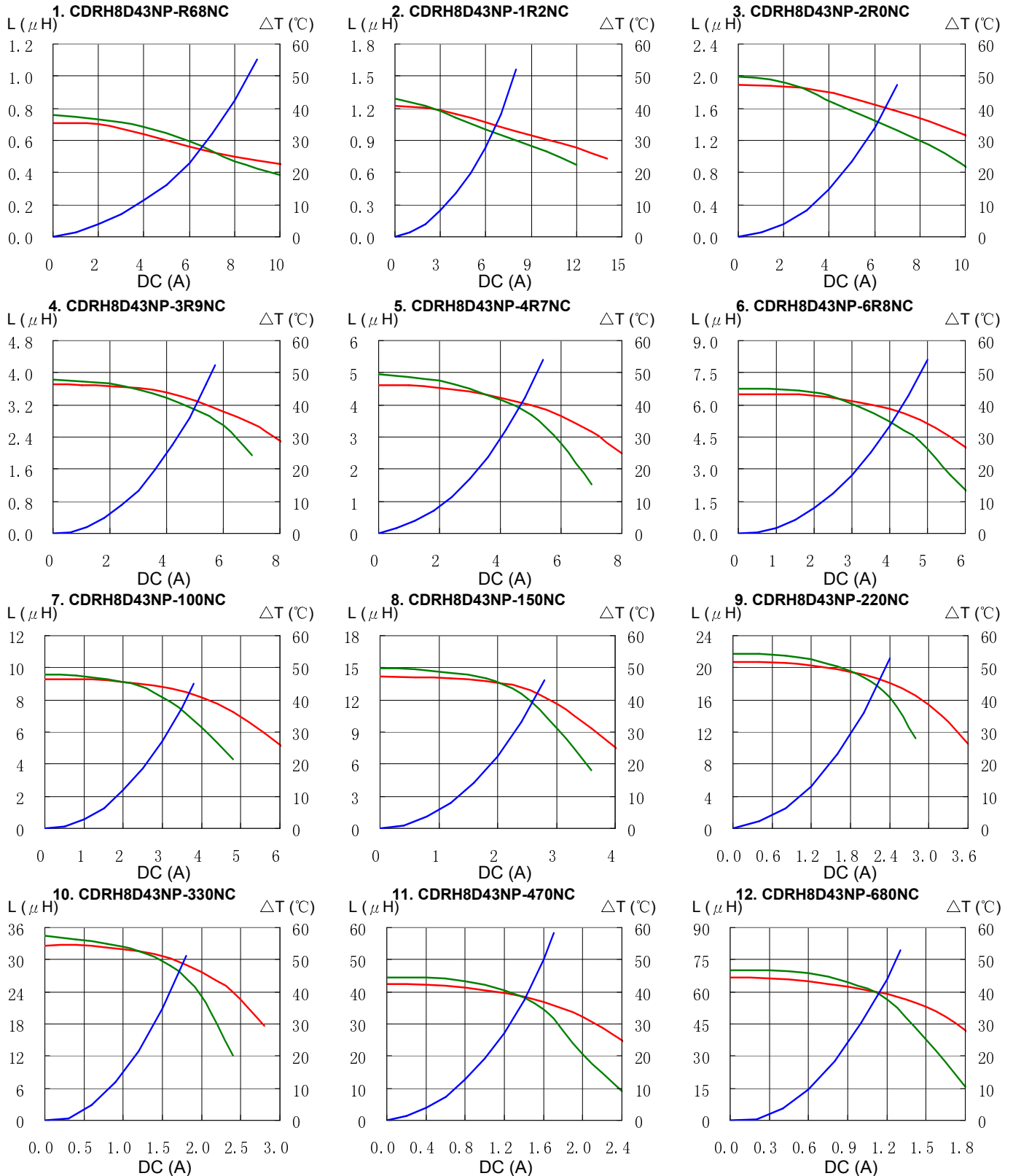
※3. Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ )

# SMD Power Inductor CDRH8D43



## Saturation Current & Temperature Rise Graph

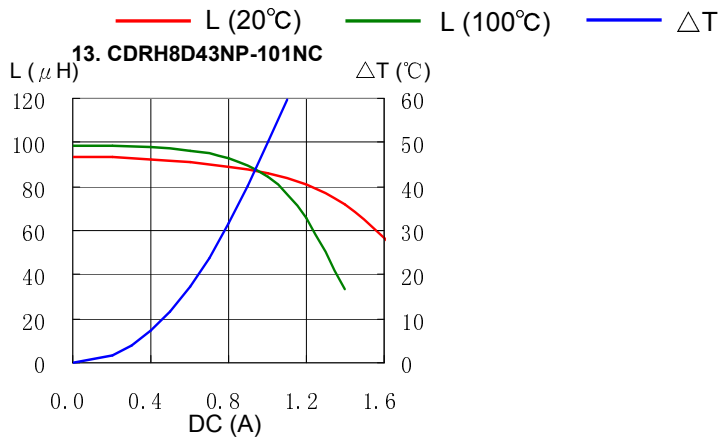
— L (20°C) — L (100°C) —  $\Delta T$



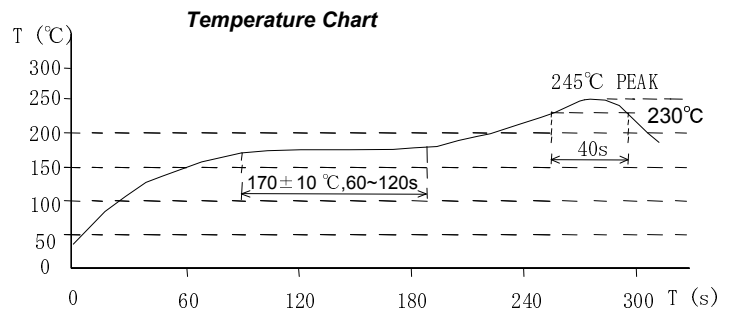
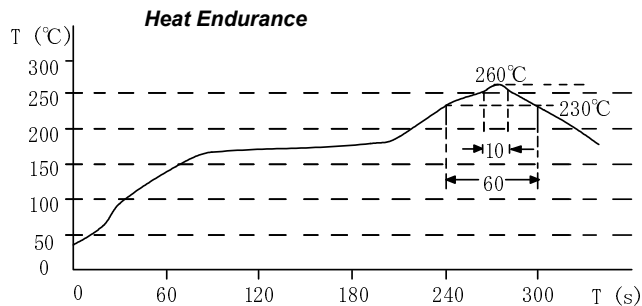
# SMD Power Inductor CDRH8D43



## Saturation Current & Temperature Rise Graph



## Solder Reflow Condition



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