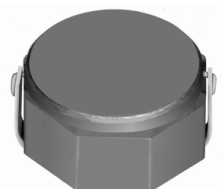


SMD Power Inductor CDRH8D43



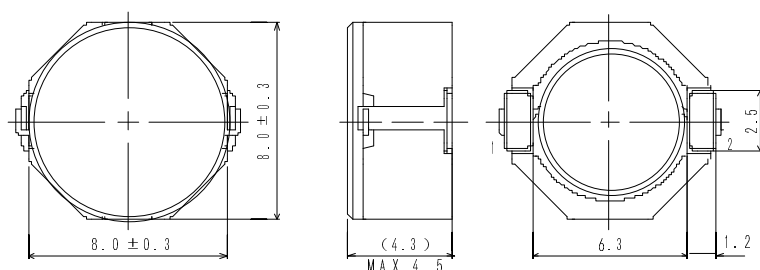
Halogen
Free



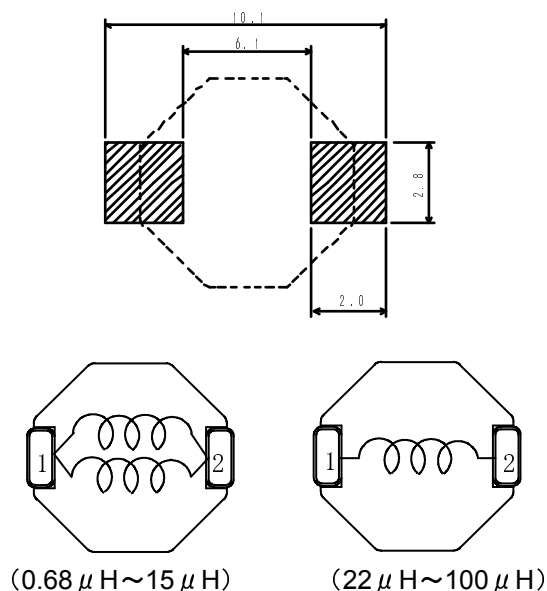
Description

- 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.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- 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.

SMD Power Inductor

CDRH8D43



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) 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.

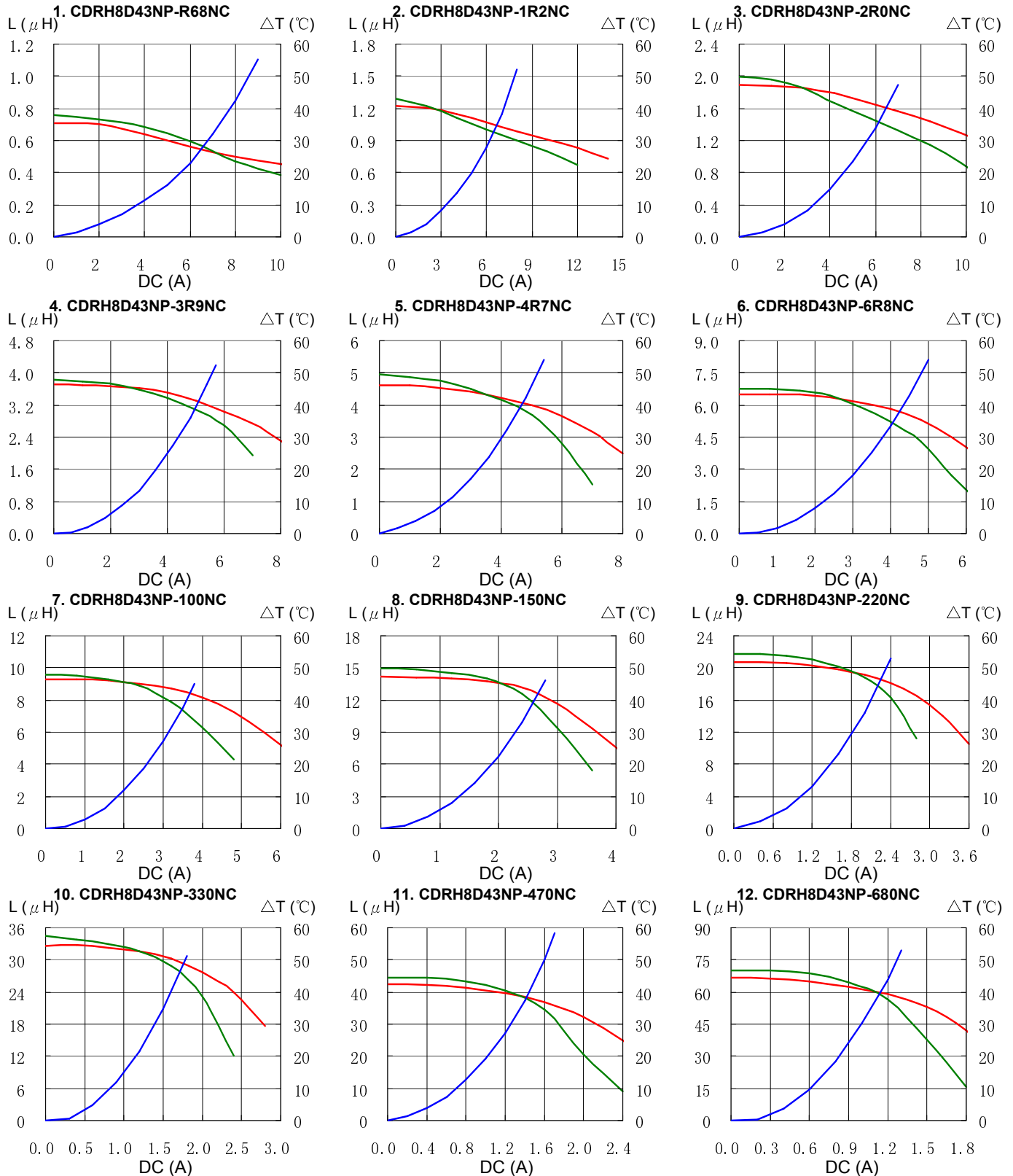
※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

※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

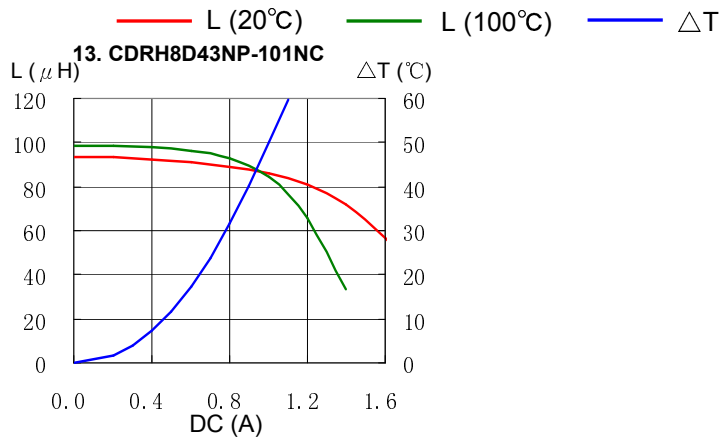
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

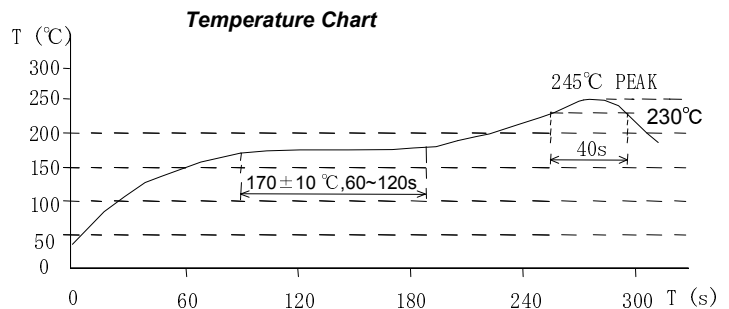
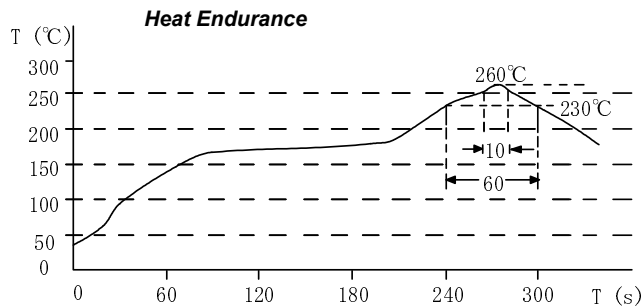


SMD Power Inductor CDRH8D43

Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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