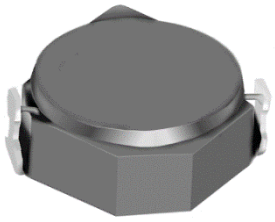
SMD Power Inductor

CDRH2D14

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:3.2 × 3.2 × 1.55mm Max.
- Product weight: 0.44g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.



Environmental Data

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

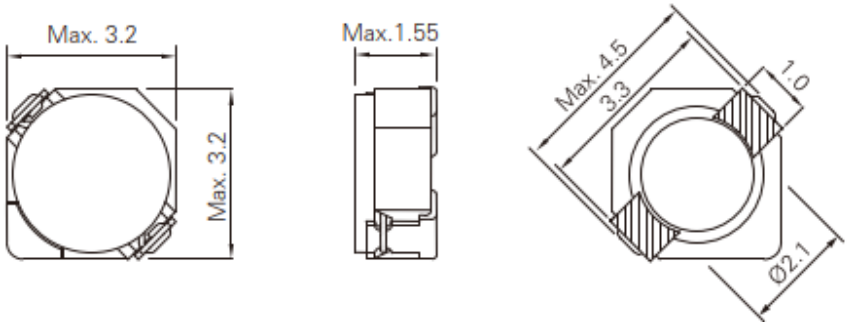
Packaging

- Carrier tape and reel packaging
- 7.0"diameter reel
- 1,000pcs per reel

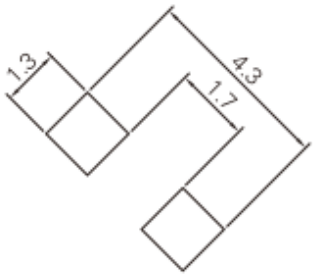
Applications

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

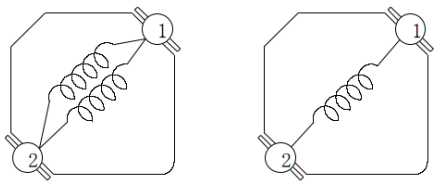
Dimension - [mm]



Land patterns - [mm]



Schematics



（0.21μH～2.7μH）　（3.3μH～12μH）

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

CDRH2D14

Electrical Characteristics

Part Name	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current Max. (Typ.) (A) ※2		Temperature Rise Current (A) ※3
			at 20℃	at 100℃	
CDRH2D14NP-R21NC	0.21 ± 35%	21.0 (16.0)	3.80 (4.75)	2.70 (3.40)	(4.74)
CDRH2D14NP-R36NC	0.36 ± 35%	26.0 (20.0)	3.25 (3.88)	2.55 (3.00)	(4.10)
CDRH2D14NP-R60NC	0.60 ± 35%	33.0 (25.0)	2.20 (2.75)	1.75 (2.06)	(3.45)
CDRH2D14NP-R82NC	0.82 ± 35%	39.0 (30.0)	2.10 (2.45)	1.68 (1.79)	(2.85)
CDRH2D14NP-1R2NC	1.2 ± 30%	49.0 (38.0)	1.95 (2.16)	1.35 (1.55)	(2.75)
CDRH2D14NP-1R5NC	1.5 ± 30%	63.0 (50.0)	1.80 (2.10)	1.20 (1.40)	(2.00)
CDRH2D14NP-1R8NC	1.8 ± 30%	75.0 (60.0)	1.65 (1.76)	1.10 (1.30)	(1.80)
CDRH2D14NP-2R2NC	2.2 ± 30%	94.0 (75.0)	1.50 (1.65)	1.00 (1.23)	(1.60)
CDRH2D14NP-2R7NC	2.7 ± 30%	106 (85.0)	1.35 (1.55)	0.90 (1.08)	(1.40)
CDRH2D14NP-3R3NC	3.3 ± 30%	125 (100)	1.20 (1.40)	0.82 (1.00)	(1.24)
CDRH2D14NP-3R9NC	3.9 ± 30%	138 (110)	1.10 (1.30)	0.75 (0.93)	(1.12)
CDRH2D14NP-4R7NC	4.7 ± 30%	169 (135)	1.00 (1.23)	0.68 (0.78)	(1.00)
CDRH2D14NP-5R6NC	5.6 ± 30%	188 (150)	0.95 (1.15)	0.60 (0.75)	(0.98)
CDRH2D14NP-6R8NC	6.8 ± 30%	213 (170)	0.85 (1.03)	0.56 (0.73)	(0.92)
CDRH2D14NP-8R2NC	8.2 ± 30%	281(225)	0.80 (0.99)	0.51 (0.62)	(0.80)
CDRH2D14NP-100NC	10 ± 30%	294 (235)	0.70 (0.84)	0.46 (0.60)	(0.76)
CDRH2D14NP-120NC	12 ± 30%	394 (315)	0.62 ((0.80)	0.42 (0.55)	(0.64)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 70% of its initial value.

※3 The temperature rise: The value of DC current when the temperature rise is △T＝40℃ (Ta＝20℃).

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

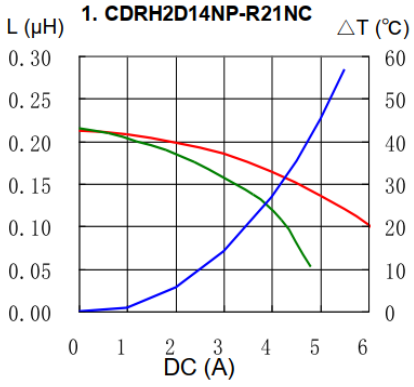
SMD Power Inductor

CDRH2D14

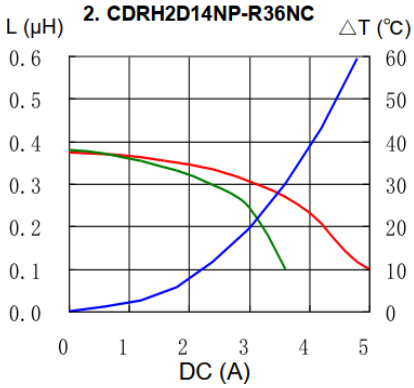
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

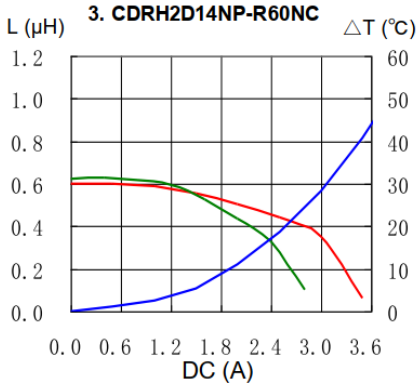
1. CDRH2D14NP-R21NC



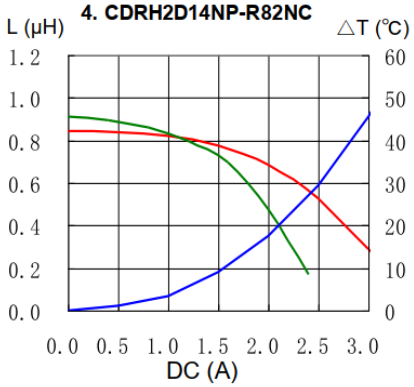
2. CDRH2D14NP-R36NC



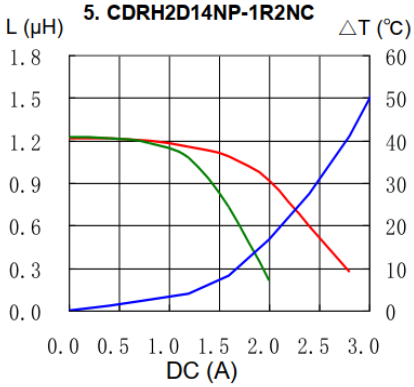
3. CDRH2D14NP-R60NC



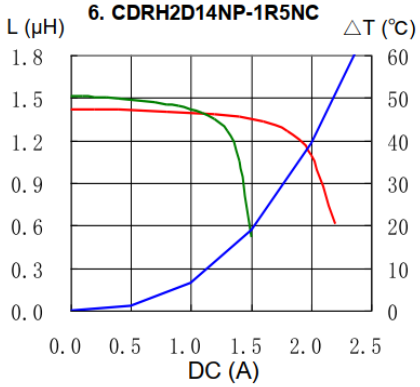
4. CDRH2D14NP-R82NC



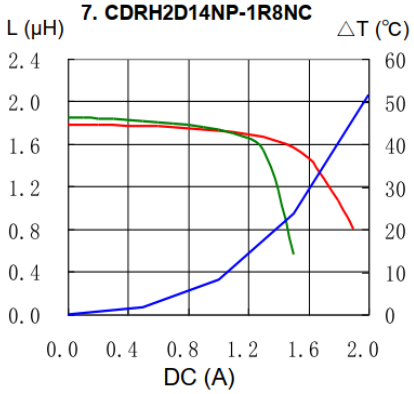
5. CDRH2D14NP-1R2NC



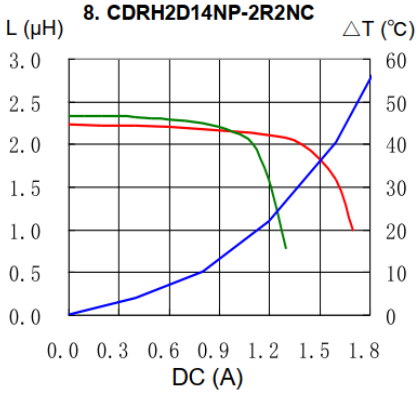
6. CDRH2D14NP-1R5NC



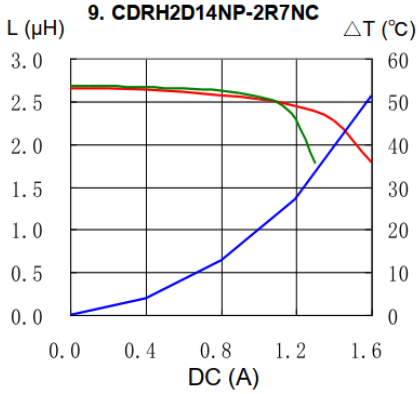
7. CDRH2D14NP-1R8NC



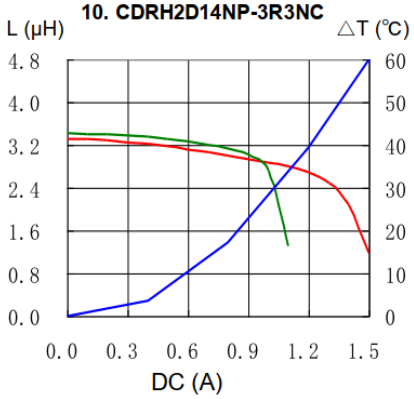
8. CDRH2D14NP-2R2NC



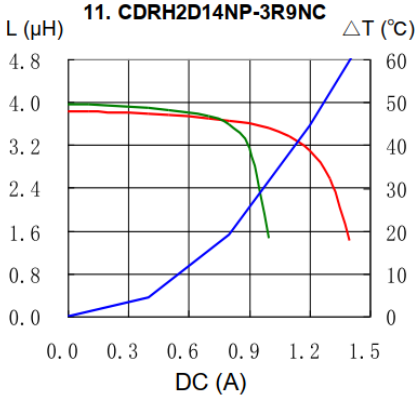
9. CDRH2D14NP-2R7NC



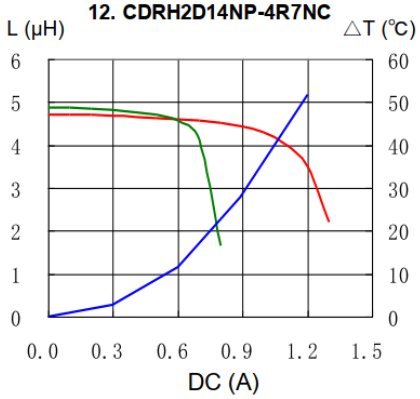
10. CDRH2D14NP-3R3NC



11. CDRH2D14NP-3R9NC



12. CDRH2D14NP-4R7NC



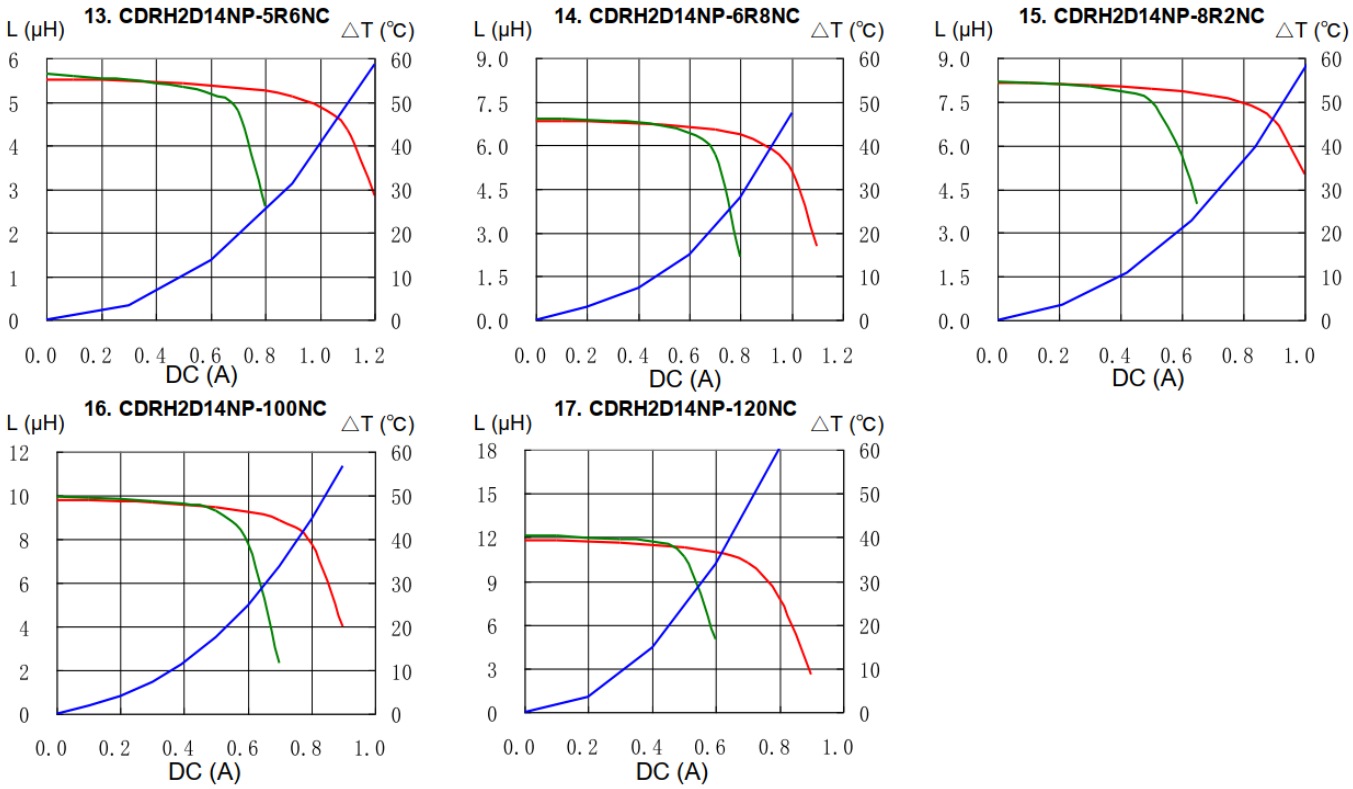
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

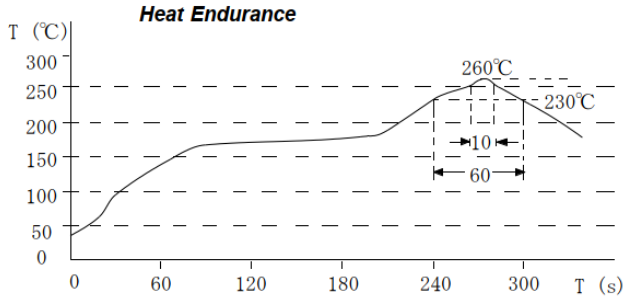
CDRH2D14

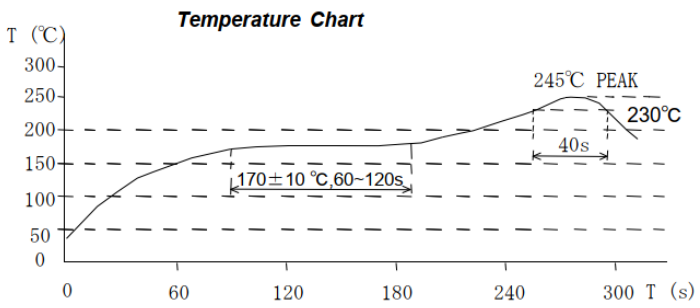
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T



Solder Reflow Condition





For sales office information, please click here to visit our website.

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.