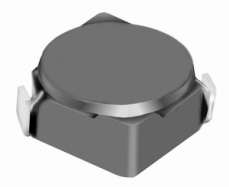
SMD Power Inductor
CDRH4D22/HP

RoHS



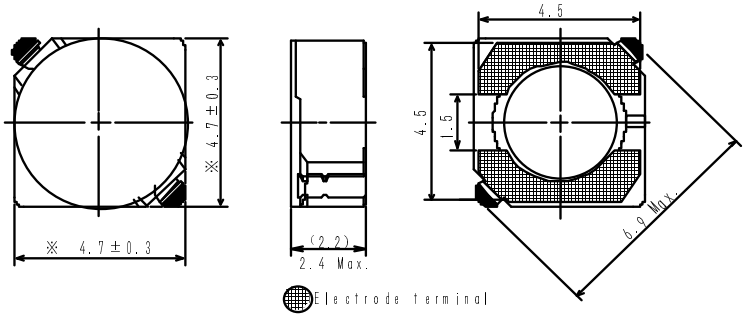
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:5.0 × 5.0 × 2.4 mm Max.
- Product weight: 0.2g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

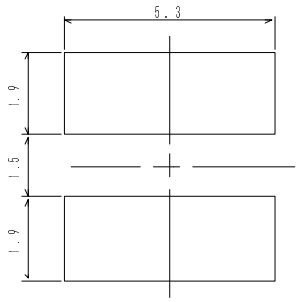
Packaging
- Carrier tape and reel packaging
- 12.9"diameter reel
- 2000pcs per reel

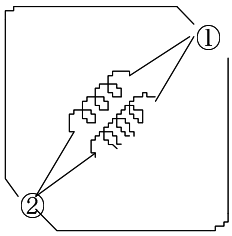
Applications
- Ideally used in Mobile phone,PDA,MP3, HDD,DSC/DVC, Portable Computers, etc as DC-DC converter inductors.

Dimension - [mm]

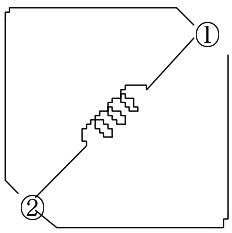


Land pattern and Schematics - [mm]





（1.2μH～5.2μH）



（6.3μH～100μH）

Revised: 7-Jan-14

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 100℃	
CDRH4D22HPNP-1R2NC	1R2	1.2±25%	26.5(21.2)	4.20	3.40	3.20
CDRH4D22HPNP-1R5NC	1R5	1.5±25%	31.3(25.0)	3.90	3.20	3.00
CDRH4D22HPNP-2R2NC	2R2	2.2±25%	44.3(35.4)	3.20	2.50	2.40
CDRH4D22HPNP-2R7NC	2R7	2.7±25%	57.8(46.3)	2.80	2.35	2.20
CDRH4D22HPNP-3R5NC	3R5	3.5±25%	65.1(52.0)	2.50	2.10	2.00
CDRH4D22HPNP-4R7NC	4R7	4.7±25%	82.6(66.0)	2.20	1.80	1.80
CDRH4D22HPNP-5R2NC	5R2	5.2±25%	92.8(74.3)	2.00	1.65	1.70
CDRH4D22HPNP-6R3NC	6R3	6.3±25%	110.0(87.9)	1.85	1.50	1.40
CDRH4D22HPNP-8R2NC	8R2	8.2±25%	128.3(102.6)	1.65	1.40	1.35
CDRH4D22HPNP-100MC	100	10±20%	143.8(115.0)	1.50	1.20	1.30
CDRH4D22HPNP-120MC	120	12±20%	187.2(150.0)	1.30	1.10	1.10
CDRH4D22HPNP-150MC	150	15±20%	212.9(170.3)	1.20	1.00	0.85
CDRH4D22HPNP-180MC	180	18±20%	238.7(191.0)	1.10	0.90	0.80
CDRH4D22HPNP-220MC	220	22±20%	267.0(213.6)	1.05	0.85	0.90
CDRH4D22HPNP-270MC	270	27±20%	393.9(315.0)	0.90	0.75	0.70
CDRH4D22HPNP-330MC	330	33±20%	448.9(359.0)	0.80	0.68	0.65
CDRH4D22HPNP-390MC	390	39±20%	667.9(534.3)	0.75	0.60	0.52
CDRH4D22HPNP-470MC	470	47±20%	723.3(578.6)	0.70	0.56	0.50
CDRH4D22HPNP-560MC	560	56±20%	810.0(648.2)	0.65	0.52	0.48
CDRH4D22HPNP-680MC	680	68±20%	913.0(730.4)	0.60	0.48	0.45
CDRH4D22HPNP-820MC	820	82±20%	1221(977.0)	0.55	0.45	0.40
CDRH4D22HPNP-101MC	101	100±20%	1370(1096.0)	0.48	0.38	0.35

※1. Inductance measuring condition: at 100kHz.

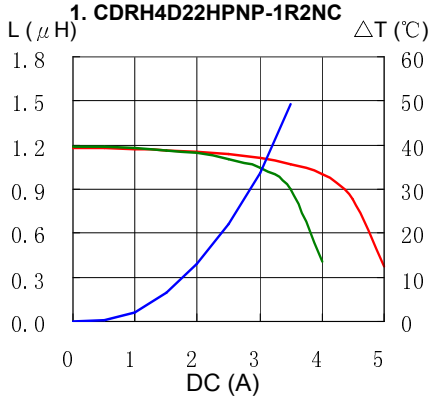
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

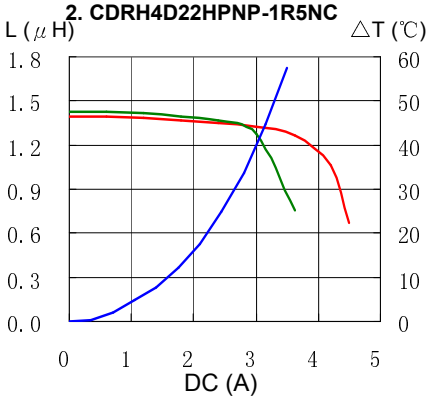
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

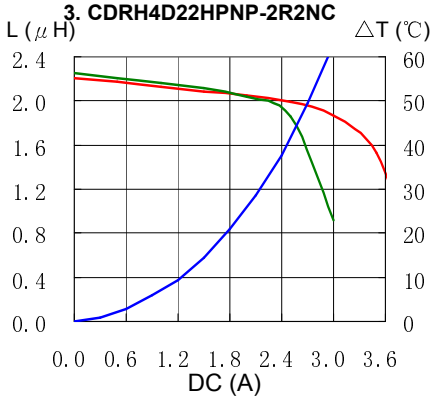
1. CDRH4D22HPNP-1R2NC



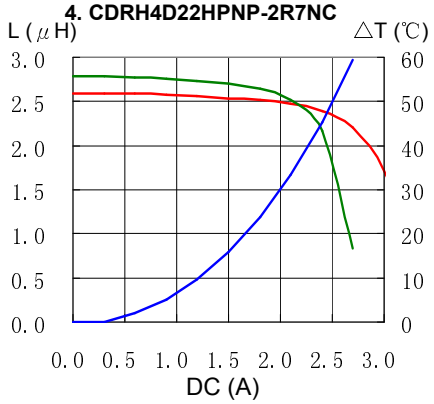
2. CDRH4D22HPNP-1R5NC



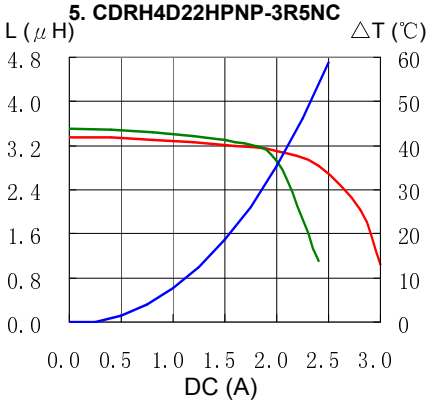
3. CDRH4D22HPNP-2R2NC



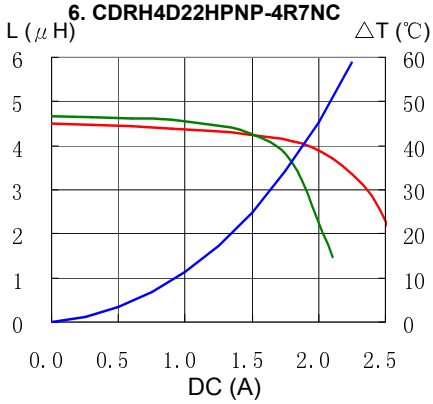
4. CDRH4D22HPNP-2R7NC



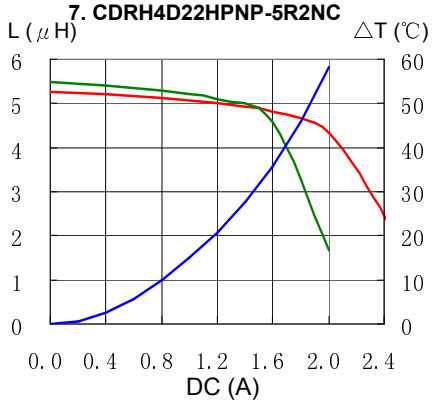
5. CDRH4D22HPNP-3R5NC



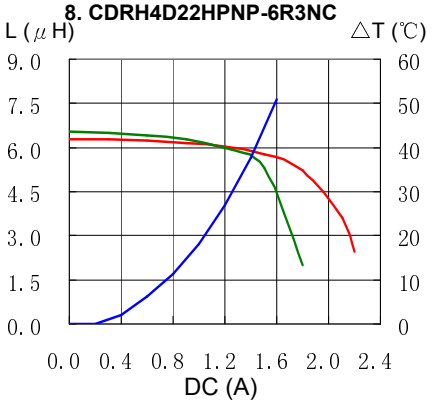
6. CDRH4D22HPNP-4R7NC



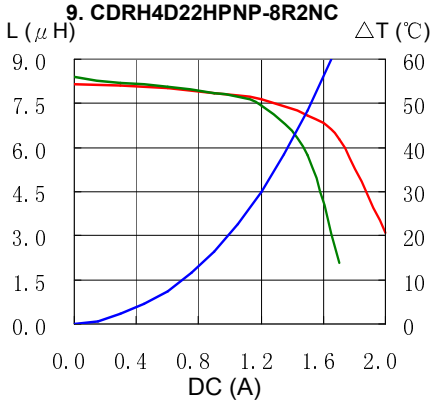
7. CDRH4D22HPNP-5R2NC



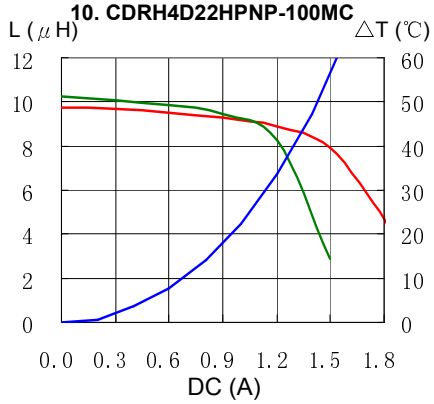
8. CDRH4D22HPNP-6R3NC



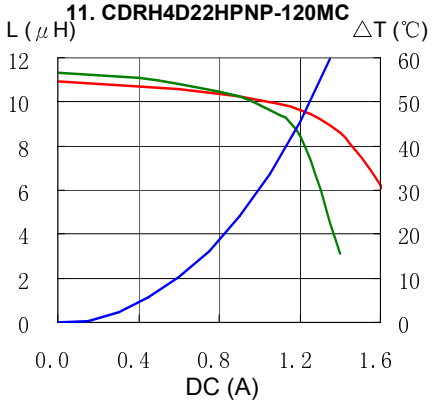
9. CDRH4D22HPNP-8R2NC



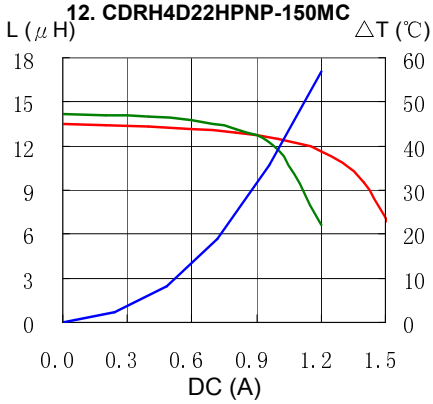
10. CDRH4D22HPNP-100MC



11. CDRH4D22HPNP-120MC



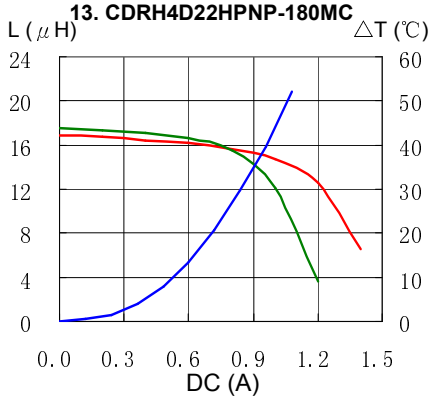
12. CDRH4D22HPNP-150MC



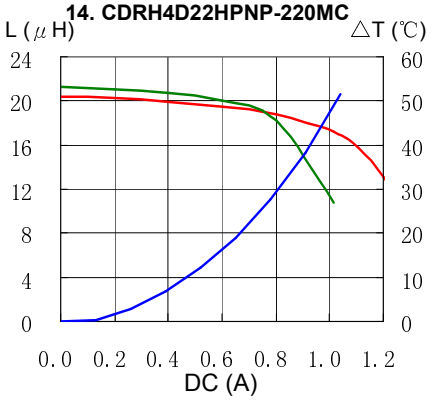
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

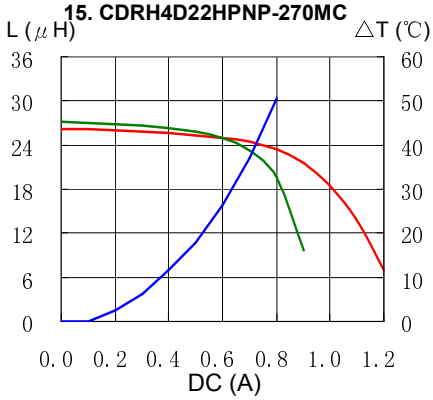
13. CDRH4D22HPNP-180MC



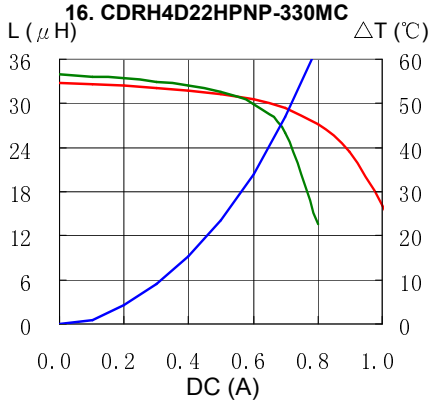
14. CDRH4D22HPNP-220MC



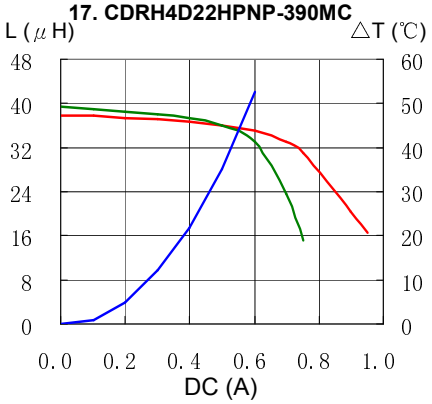
15. CDRH4D22HPNP-270MC



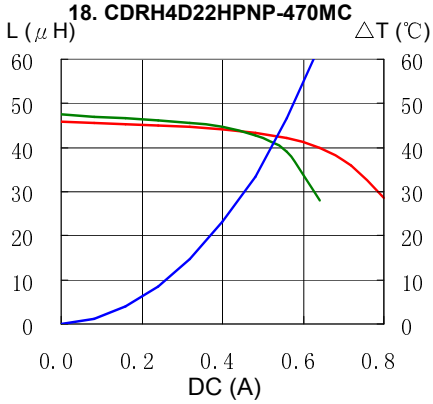
16. CDRH4D22HPNP-330MC



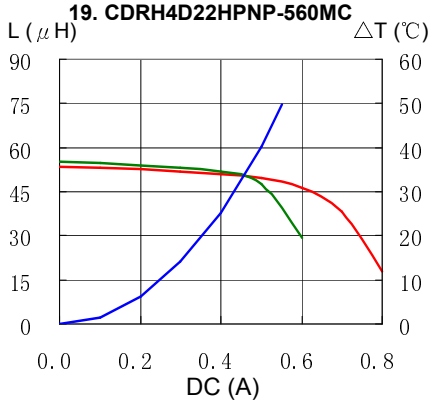
17. CDRH4D22HPNP-390MC



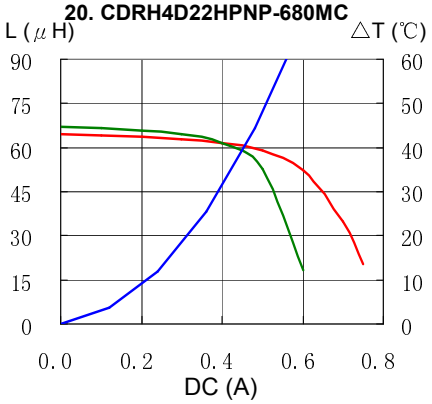
18. CDRH4D22HPNP-470MC



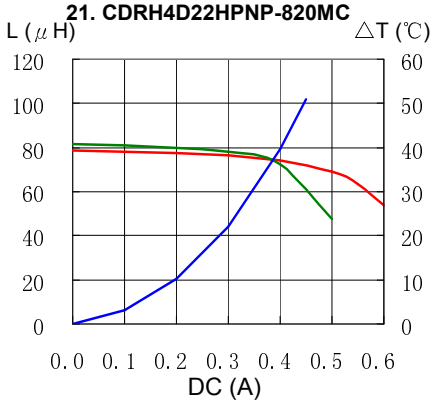
19. CDRH4D22HPNP-560MC



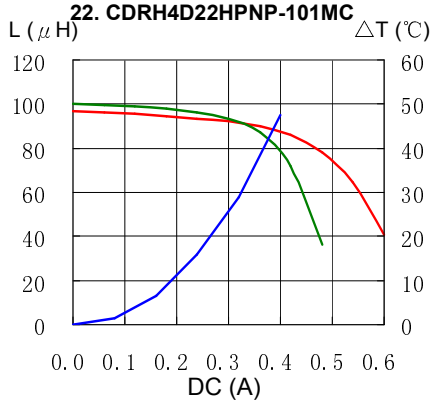
20. CDRH4D22HPNP-680MC



21. CDRH4D22HPNP-820MC

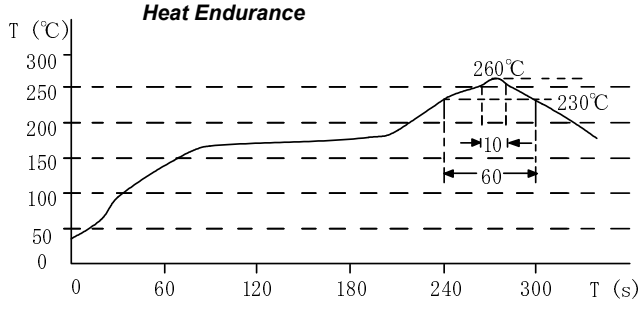


22. CDRH4D22HPNP-101MC



Solder Reflow Condition

Heat Endurance



Temperature Chart

