



- Ferrite drum core construction.
- Magnetically shielded.
- L x W x H: 4.0 x 4.0 x 1.8 mm Max.
- Product weight: 80mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Technical drawing of the electrode holder assembly, showing three views: front, side, and detail.

- Front View (Left):** Shows a circular electrode holder with a central hole. Dimensions include a diameter of $(\ast 1) 3.8 \pm 0.2$ and a height of $(\ast 1) 3.8 \pm 0.2$.
- Side View (Middle):** Shows the profile of the holder. Dimensions include a total height of 1.65 ± 0.15 .
- Detail View (Right):** Shows a cross-section of the holder with a central hole. Dimensions include a diameter of $\phi 2.8$, a height of 0.9 ± 0.2 , and a total height of $(\ast 2) \text{ MAX } 5.2$. The detail view also shows a central hole with a diameter of $(\ast 3) 4.4 \pm 0.2$ and a height of 1.1 ± 0.2 . The detail view is labeled with a circled 1 and a circled 2.

ELECTRODE

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1000pcs per reel

(1.1 μH ~ 4.7 μH)

(6.8 μH ~ 33 μH)

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

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 105℃	
CDRH3D16/HPNP-1R7NC	A	1.7±30%	51(41)	2.00	1.50	2.40
CDRH3D16/HPNP-2R2NC	C	2.2±30%	59(47)	1.75	1.30	2.30
CDRH3D16/HPNP-3R3NC	E	3.3±30%	85(68)	1.40	1.10	1.80
CDRH3D16/HPNP-4R7NC	G	4.7±30%	116(93)	1.20	0.90	1.50
CDRH3D16/HPNP-6R8NC	J	6.8±30%	180(145)	1.00	0.72	1.10
CDRH3D16/HPNP-100MC	L	10±20%	230(185)	0.84	0.62	1.00
CDRH3D16/HPNP-150MC	N	15±20%	410(328)	0.65	0.52	0.75
CDRH3D16/HPNP-220MC	P	22±20%	610(488)	0.55	0.43	0.52
CDRH3D16/HPNP-330MC	Q	33±20%	870(695)	0.46	0.35	0.41

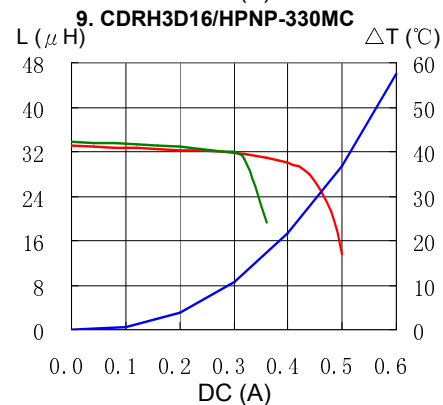
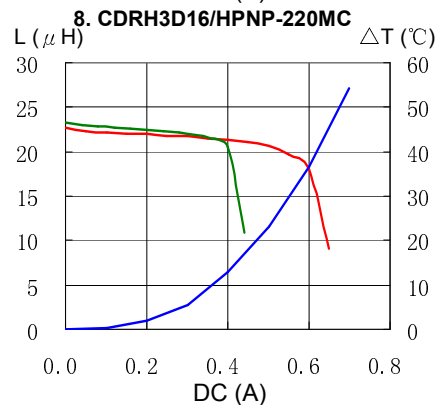
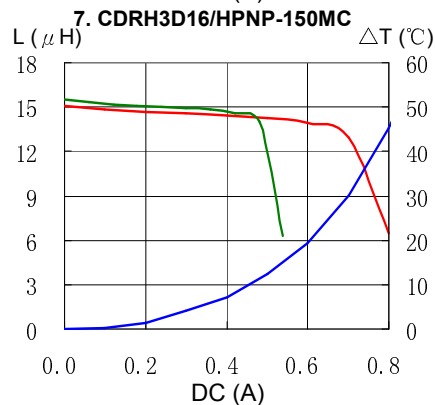
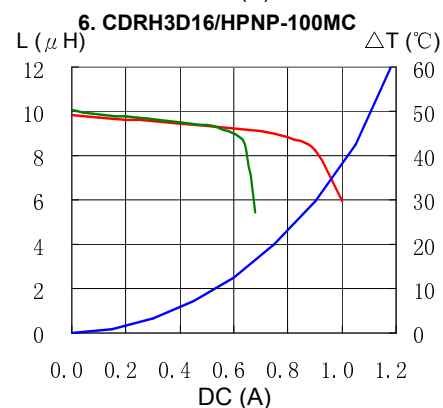
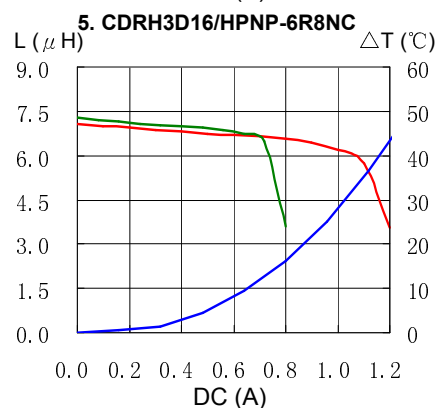
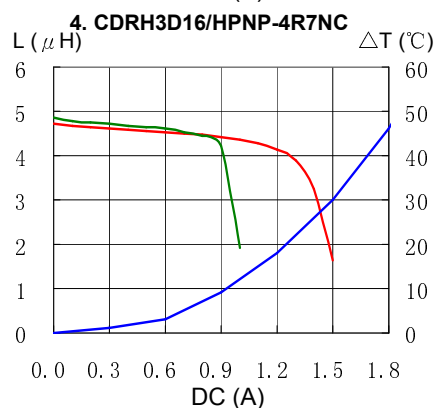
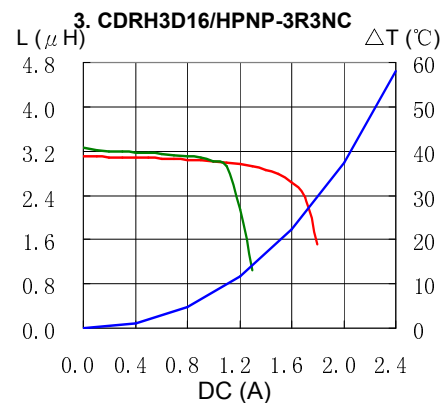
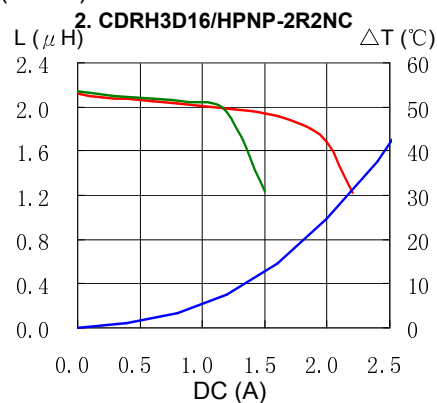
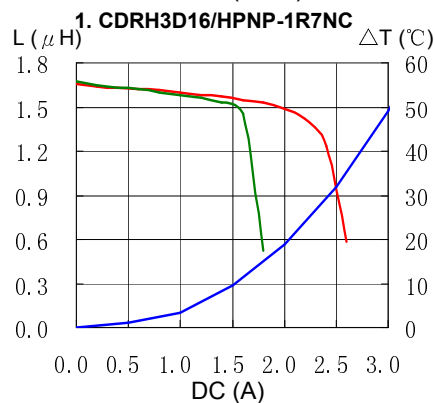
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

SMD Power Inductor CDRH3D16/HP



Saturation Current & Temperature Rise Graph

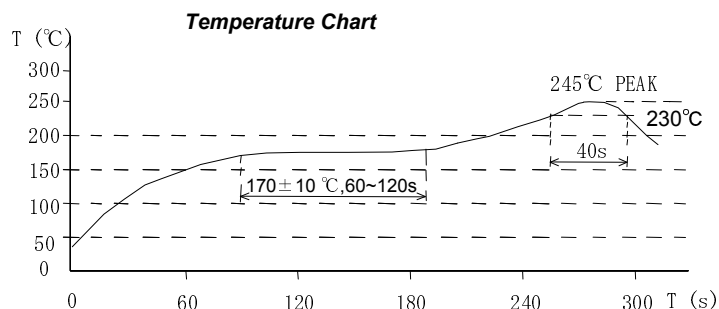
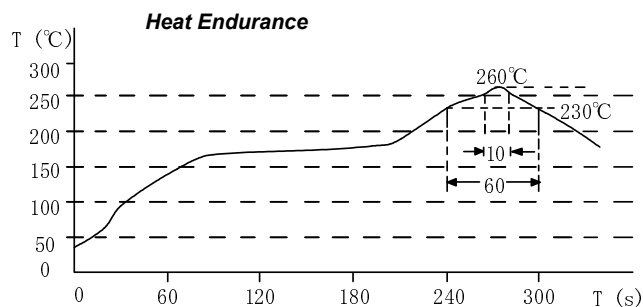
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDRH3D16/HP



Solder Reflow Condition



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