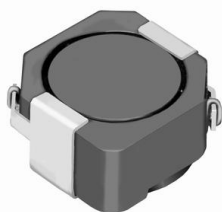
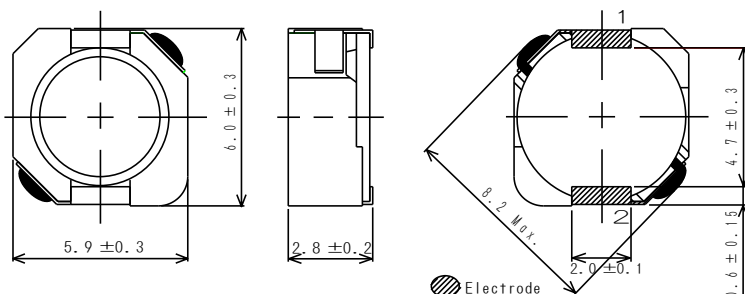


SMD Power Inductor

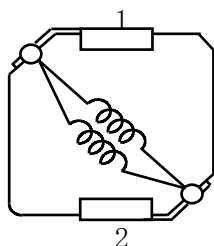
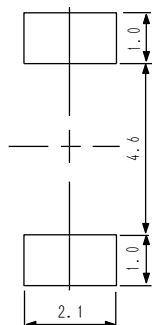
CDRH5D28R/HP



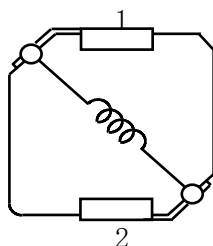
Dimension - [mm]



Land pattern and Schematics - [mm]



($2.2\mu\text{H} \sim 10\mu\text{H}$)



($12\mu\text{H} \sim 47\mu\text{H}$)

Description

- Ferrite drum core construction.
- Magnetically shielded.
- $L \times W \times H$: $6.3 \times 6.2 \times 3.0$ mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 2000pcs per reel

Applications

- Ideally used in Notebook PC, HDD, DSC/DVC, LCD TV, Game machine etc. as DC-DC converter inductors.

SMD Power Inductor

CDRH5D28R/HP



Electrical Characteristics

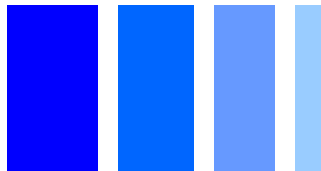
Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) [Max.] (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH5D28RHPNP-2R2NC	2R2	$2.2 \pm 25\%$	24.8(19.8)	5.50	4.50	3.80
CDRH5D28RHPNP-3R0NC	3R0	$3.0 \pm 25\%$	31.8(25.4)	4.70	3.90	3.35
CDRH5D28RHPNP-4R7NC	4R7	$4.7 \pm 25\%$	43.1(34.5)	3.70	3.05	2.80
CDRH5D28RHPNP-5R6NC	5R6	$5.6 \pm 25\%$	47.9(38.3)	3.30	2.65	2.70
CDRH5D28RHPNP-6R8NC	6R8	$6.8 \pm 25\%$	61.3(49.0)	3.10	2.55	2.50
CDRH5D28RHPNP-8R2NC	8R2	$8.2 \pm 25\%$	88.4(70.7)	2.70	2.30	1.90
CDRH5D28RHPNP-100MC	100	$10.0 \pm 20\%$	93.0(74.4)	2.45	2.05	1.85
CDRH5D28RHPNP-120MC	120	$12.0 \pm 20\%$	115(92.1)	2.30	2.00	1.60
CDRH5D28RHPNP-150MC	150	$15.0 \pm 20\%$	144(115)	2.05	1.65	1.40
CDRH5D28RHPNP-180MC	180	$18.0 \pm 20\%$	161(128)	1.90	1.55	1.35
CDRH5D28RHPNP-220MC	220	$22.0 \pm 20\%$	213(171)	1.75	1.42	1.20
CDRH5D28RHPNP-270MC	270	$27.0 \pm 20\%$	277(221)	1.60	1.30	1.00
CDRH5D28RHPNP-330MC	330	$33.0 \pm 20\%$	314(251)	1.35	1.10	0.90
CDRH5D28RHPNP-470MC	470	$47.0 \pm 20\%$	379(303)	1.20	1.00	0.85

※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.

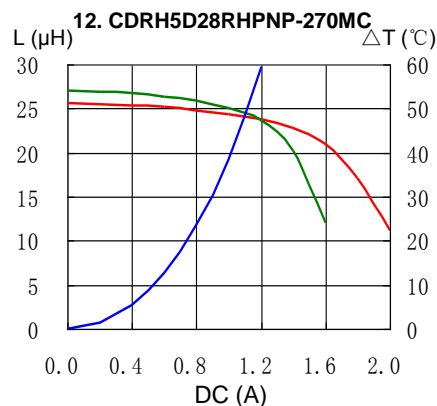
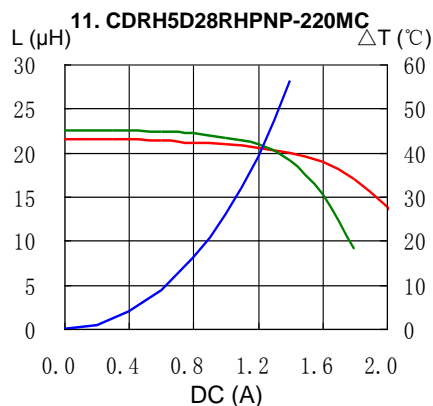
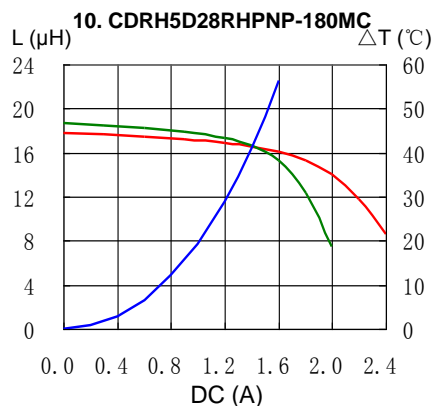
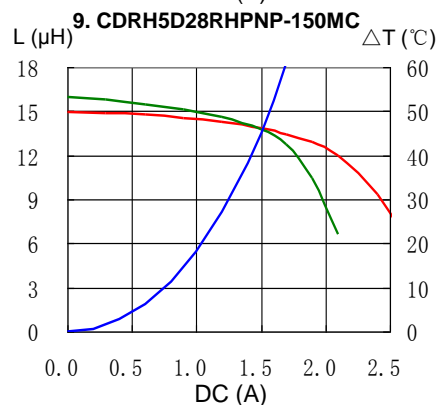
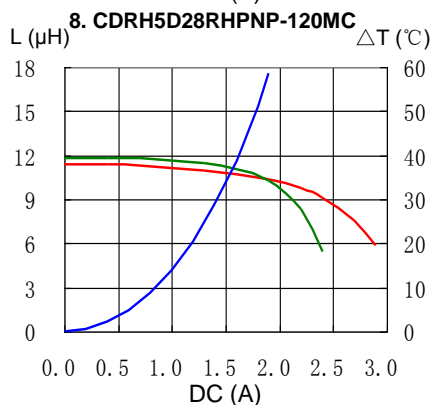
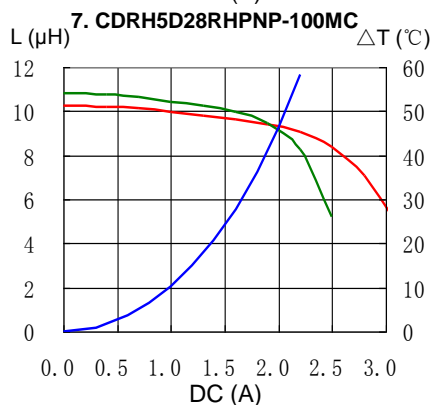
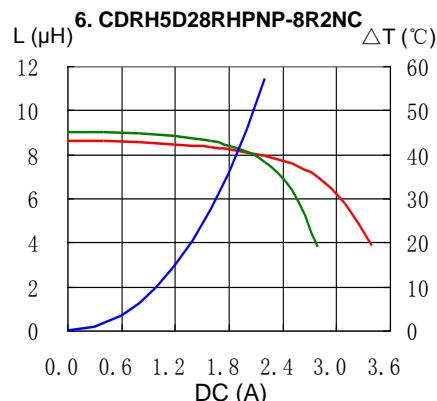
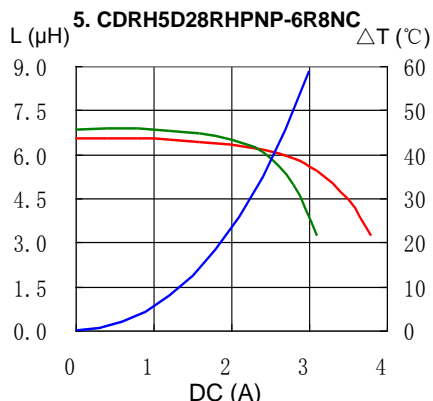
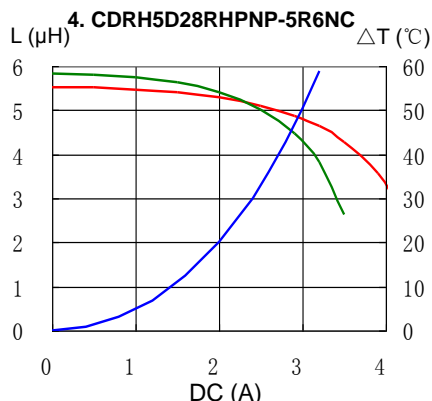
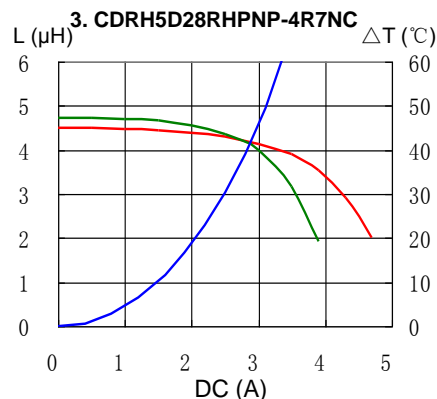
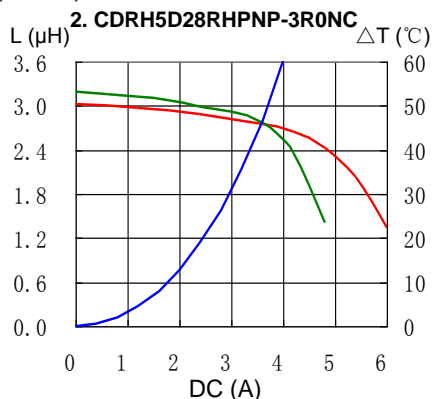
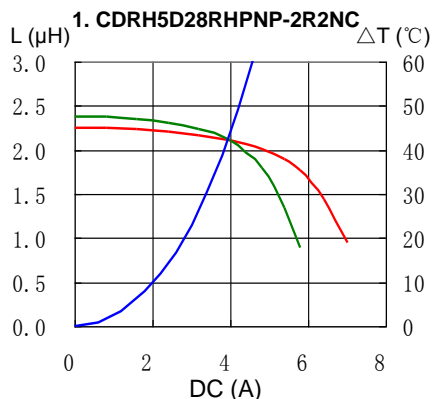
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH5D28R/HP



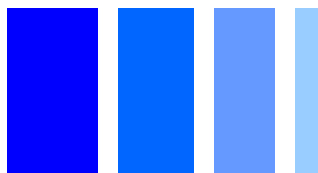
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



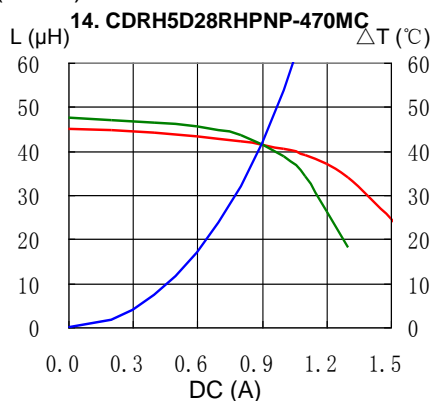
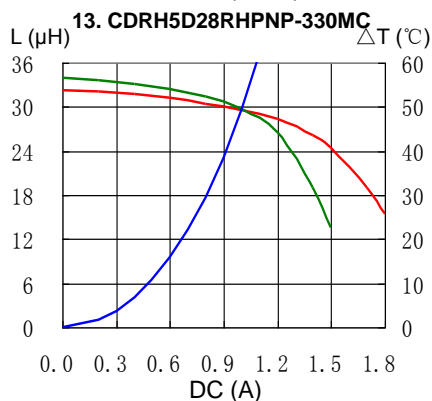
SMD Power Inductor

CDRH5D28R/HP



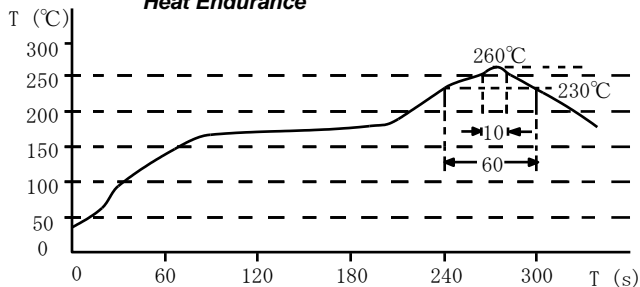
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition

Heat Endurance



Temperature Chart

