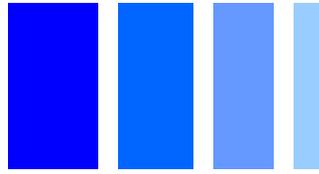


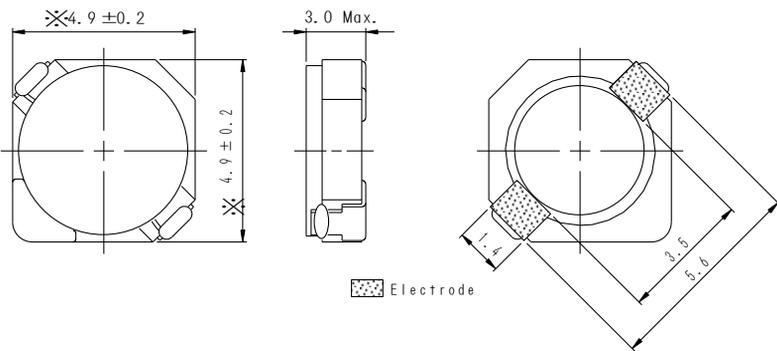
# SMD Power Inductor CDRH4D29/LD



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.1 × 5.1 × 3.0 mm Max.
- Product weight: 240mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Dimension - [mm]



## 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:  $260^{\circ}\text{C}$  peak.

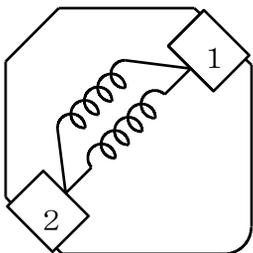
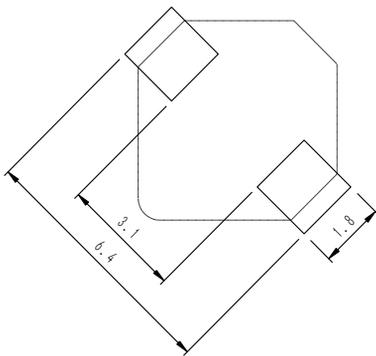
## Packaging

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

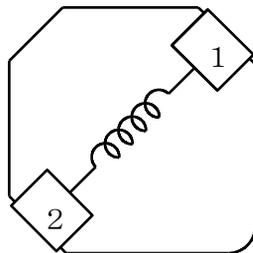
## Applications

- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors

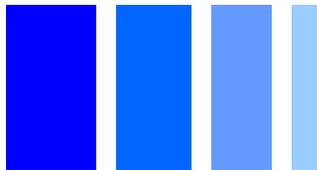
## Land pattern and Schematics - [mm]



( $0.80\mu\text{H} \sim 10.0\mu\text{H}$ )



( $15.0\mu\text{H} \sim 100\mu\text{H}$ )



### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [ within ] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH4D29LDNP-R80PC	R80	0.8 $\pm$ 25%	13.9(11.1)	3.00	2.50	5.40
CDRH4D29LDNP-1R5PC	1R5	1.5 $\pm$ 25%	18.0(14.4)	2.40	2.00	4.50
CDRH4D29LDNP-2R2PC	2R2	2.2 $\pm$ 25%	20.1(16.1)	2.00	1.70	4.10
CDRH4D29LDNP-3R3PC	3R3	3.3 $\pm$ 25%	29.5(23.6)	1.60	1.30	3.20
CDRH4D29LDNP-4R7PC	4R7	4.7 $\pm$ 25%	35.4(28.3)	1.30	1.10	2.80
CDRH4D29LDNP-5R6PC	5R6	5.6 $\pm$ 25%	45.9(36.7)	1.20	1.00	2.40
CDRH4D29LDNP-6R8PC	6R8	6.8 $\pm$ 25%	49.3(39.4)	1.15	0.95	2.30
CDRH4D29LDNP-8R2PC	8R2	8.2 $\pm$ 25%	53.3(42.6)	1.00	0.85	2.20
CDRH4D29LDNP-100MC	100	10.0 $\pm$ 20%	71.6(57.3)	0.90	0.76	1.85
CDRH4D29LDNP-150MC	150	15.0 $\pm$ 20%	93.0(74.4)	0.72	0.62	1.70
CDRH4D29LDNP-220MC	220	22.0 $\pm$ 20%	122(97.6)	0.65	0.53	1.35
CDRH4D29LDNP-330MC	330	33.0 $\pm$ 20%	190(152)	0.52	0.43	1.05
CDRH4D29LDNP-390MC	390	39.0 $\pm$ 20%	218(174)	0.46	0.4	1.00
CDRH4D29LDNP-470MC	470	47.0 $\pm$ 20%	238(190)	0.41	0.36	0.95
CDRH4D29LDNP-680MC	680	68.0 $\pm$ 20%	355(284)	0.36	0.30	0.75
CDRH4D29LDNP-820MC	820	82.0 $\pm$ 20%	474(379)	0.32	0.27	0.62
CDRH4D29LDNP-101MC	101	100 $\pm$ 20%	523(418)	0.29	0.24	0.58

※1. Inductance measuring condition: at 100kHz.

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

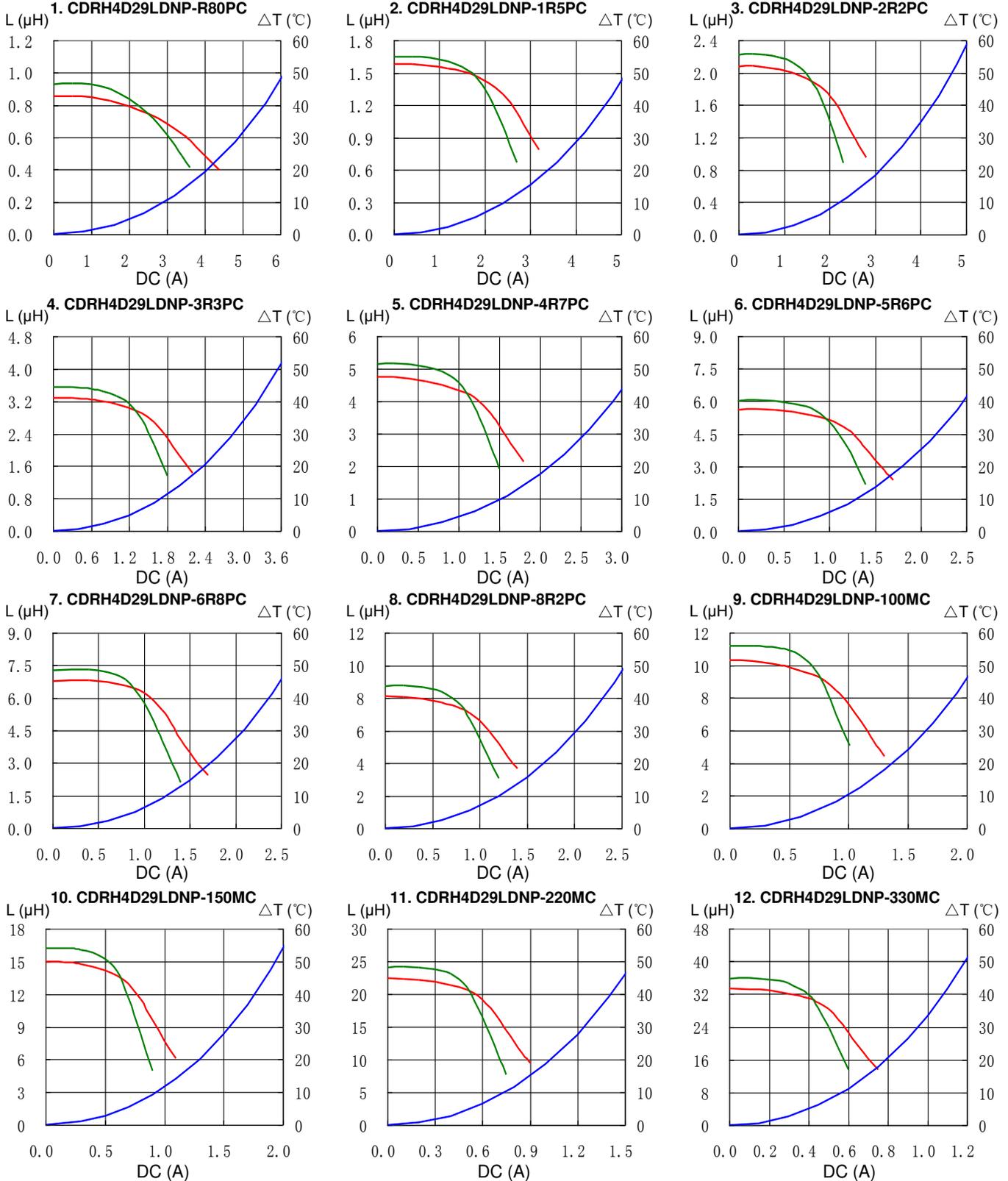
※3. Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^\circ\text{C}$ . ( $T_a=20^\circ\text{C}$ )

# SMD Power Inductor CDRH4D29/LD

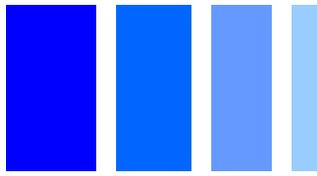


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

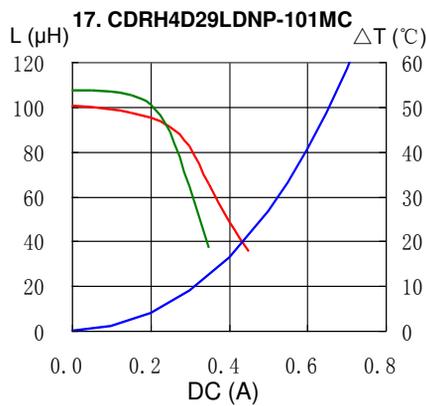
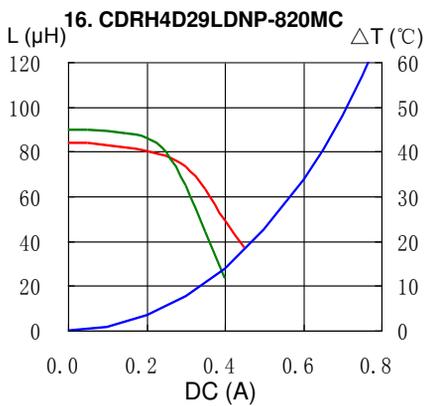
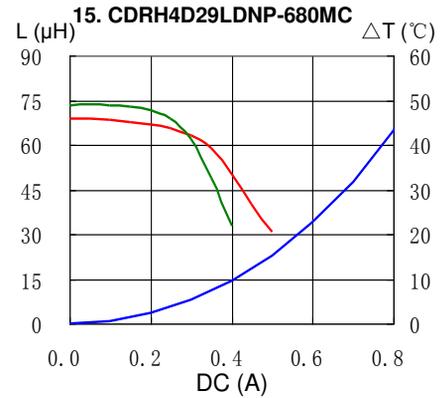
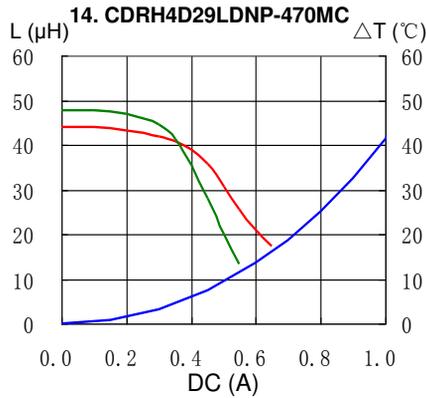
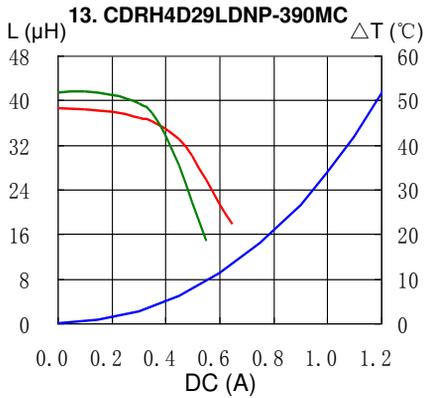


# SMD Power Inductor CDRH4D29/LD



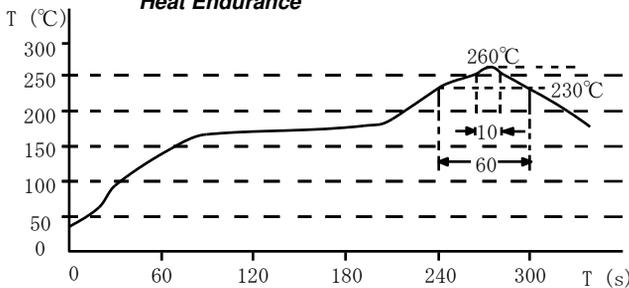
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

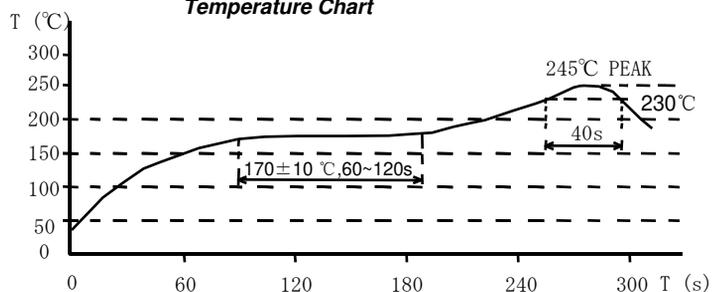


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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