

# SMD Power Inductor CDH20D11



Halogen Free



## Description

- Ferrite drum core construction.
- Magnetically Unshielded.
- L × W × H: 2.2 × 2.2 × 1.2 mm Max.
- Product weight: 13mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- 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.

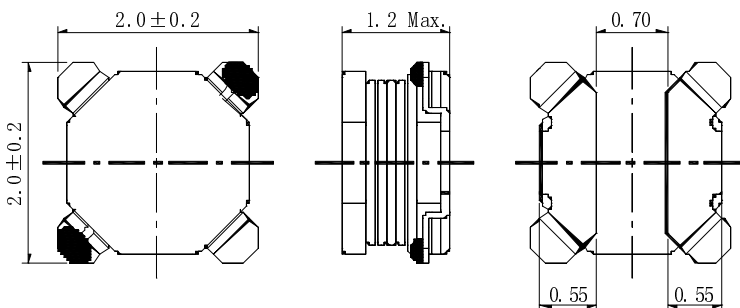
## Packaging

- Carrier tape and reel packaging

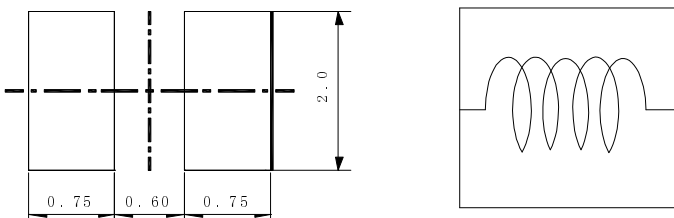
## Applications

- Ideally used in smart phone and other portable devices.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part name	Stamp	Inductance [ $\mu$ H] 1MHz	D.C.R.( $\Omega$ )[Max.] (at 20°C)	Saturation current (A) ※1 (at20°C)	Temperature Rise current (A) ※2
CDH20D11HF-R47NC	A	$0.47 \pm 30\%$	69 m (55 m)	2.24 (2.80)	1.62
CDH20D11HF-R68NC	B	$0.68 \pm 30\%$	79 m (63 m)	2.08 (2.60)	1.45
CDH20D11HF-1R0NC	C	$1.0 \pm 30\%$	112 m (89 m)	1.63 (2.04)	1.16
CDH20D11HF-1R5NC	D	$1.5 \pm 30\%$	155 m (124 m)	1.35 (1.69)	0.95
CDH20D11HF-2R2MC	E	$2.2 \pm 20\%$	234 m (187 m)	1.15 (1.44)	0.84
CDH20D11HF-3R3MC	F	$3.3 \pm 20\%$	370 m (296 m)	0.82 (1.03)	0.58
CDH20D11HF-4R7MC	G	$4.7 \pm 20\%$	442 m (353 m)	0.73 (0.92)	0.52
CDH20D11HF-5R6MC	J	$5.6 \pm 20\%$	617 m (494 m)	0.65 (0.82)	0.48
CDH20D11HF-6R8MC	K	$6.8 \pm 20\%$	675 m (539 m)	0.61 (0.77)	0.47
CDH20D11HF-8R2MC	L	$8.2 \pm 20\%$	967 m (774 m)	0.53 (0.67)	0.37
CDH20D11HF-100MC	P	$10 \pm 20\%$	1.087 (870 m)	0.49 (0.61)	0.30

※1. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

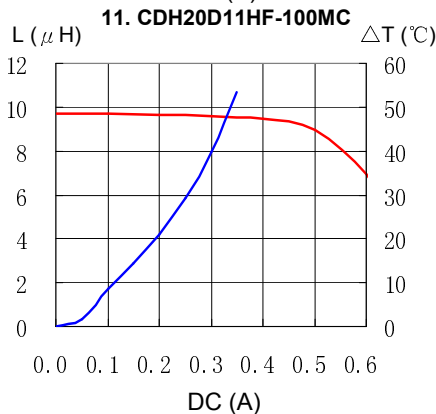
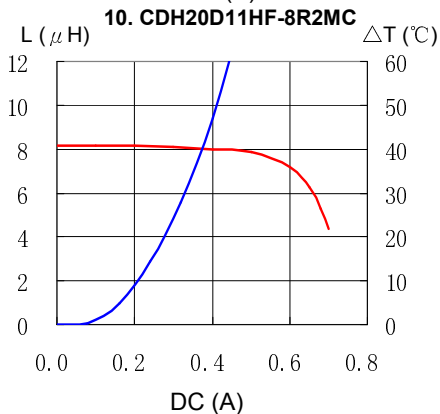
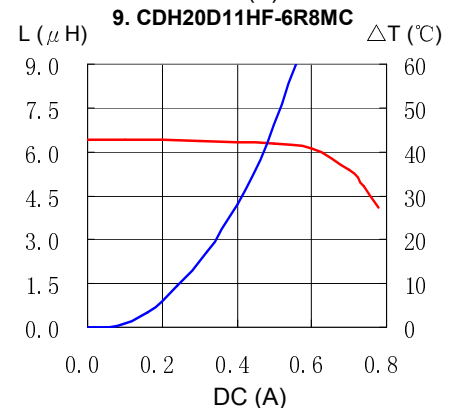
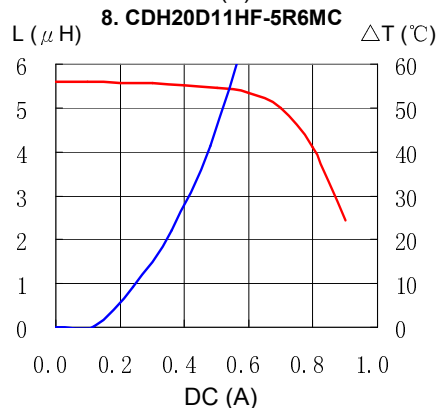
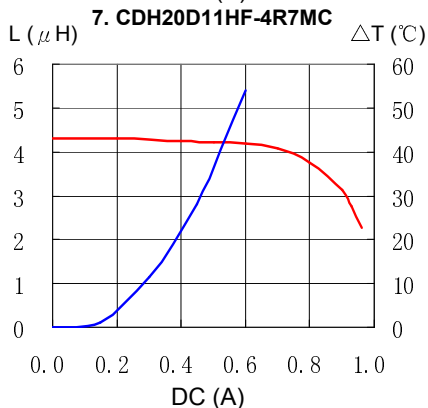
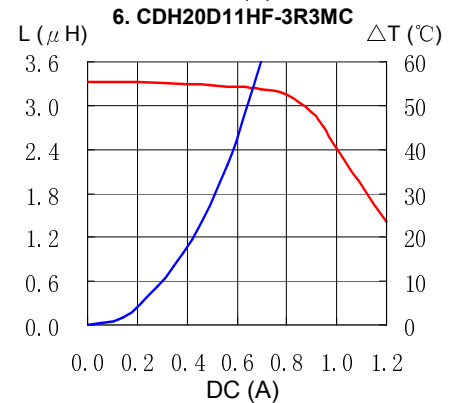
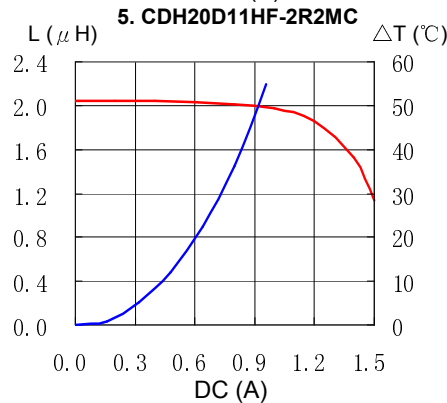
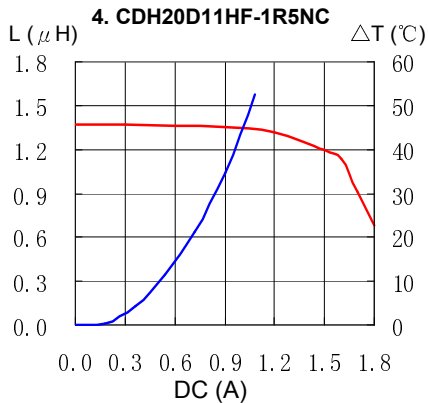
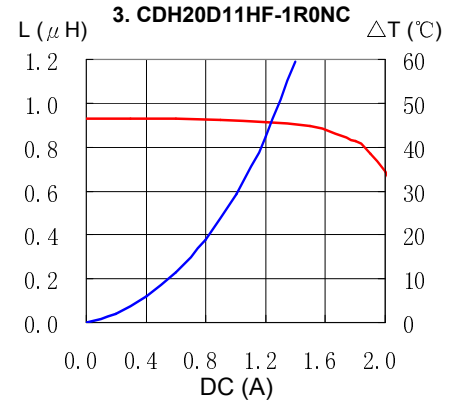
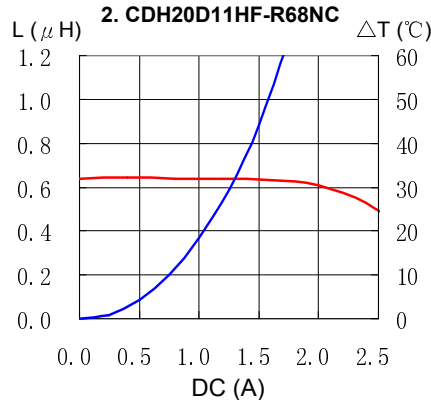
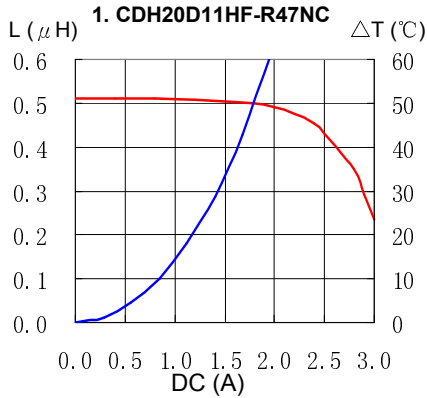
※2. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

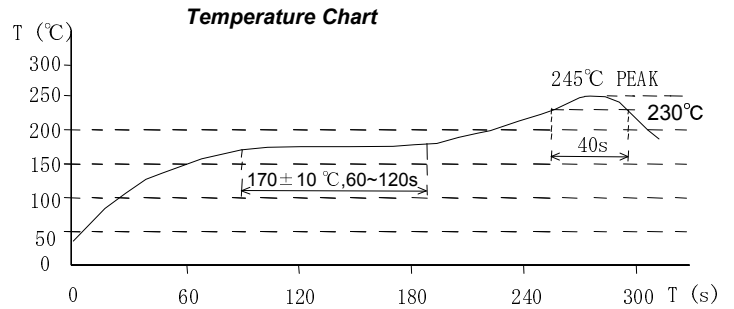
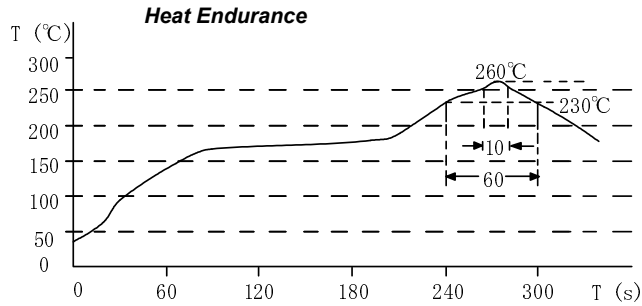
— L (20°C)    —  $\Delta T$



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## Solder Reflow Condition



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