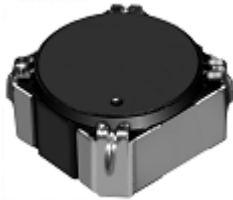


# SMD Power Inductor CDRH15D78/A



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 15.5 × 15.5 × 8.0 mm Max.
- Product weight :4.0g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

## Environmental Data

- Operating temperature range: -40°C~+125°C
- Storage temperature range: -40°C~+85°C
- Solder reflow temperature: 260 °C peak.

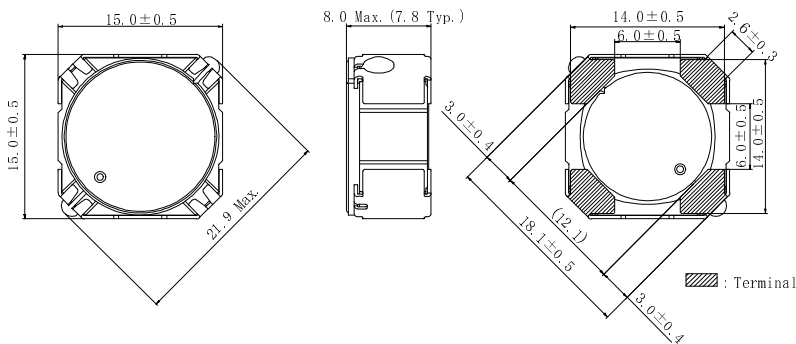
## Packaging

- Carrier tape and reel packaging
- 14.5" diameter reel
- 500pcs per reel

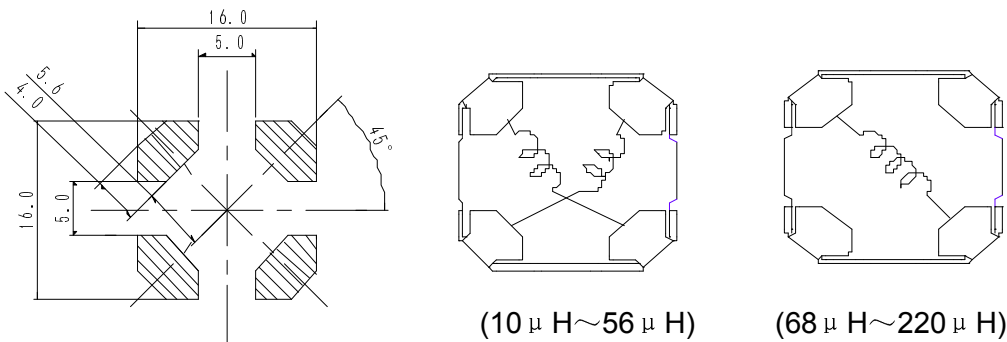
## Applications

- Automotive and other high temperature, high reliability application.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



# SMD Power Inductor

## CDRH15D78/A



### Electrical Characteristics

Part name	Stamp	Inductance ( $\mu$ H) [within] ※1	D.C.R. (m $\Omega$ ) [Max.] (Typ.) (at 20°C)	Rated current (at 125°C) (A) ※2
CDRH15D78/ANP-10 $\emptyset$ MC	100M	10 $\pm$ 20%	16.3(13)	5.38
CDRH15D78/ANP-12 $\emptyset$ MC	120M	12 $\pm$ 20%	18.8(15)	4.42
CDRH15D78/ANP-15 $\emptyset$ MC	150M	15 $\pm$ 20%	20.0(16)	4.14
CDRH15D78/ANP-18 $\emptyset$ MC	180M	18 $\pm$ 20%	25.0(20)	3.90
CDRH15D78/ANP-22 $\emptyset$ MC	220M	22 $\pm$ 20%	27.5(22)	3.55
CDRH15D78/ANP-27 $\emptyset$ MC	270M	27 $\pm$ 20%	36.3(29)	3.20
CDRH15D78/ANP-33 $\emptyset$ MC	330M	33 $\pm$ 20%	37.5(30)	2.75
CDRH15D78/ANP-39 $\emptyset$ MC	390M	39 $\pm$ 20%	41.3(33)	2.68
CDRH15D78/ANP-47 $\emptyset$ MC	470M	47 $\pm$ 20%	43.8(35)	2.52
CDRH15D78/ANP-56 $\emptyset$ MC	560M	56 $\pm$ 20%	57.5(46)	2.26
CDRH15D78/ANP-68 $\emptyset$ MC	680M	68 $\pm$ 20%	67.5(54)	2.05
CDRH15D78/ANP-82 $\emptyset$ MC	820M	82 $\pm$ 20%	75.0(60)	1.87
CDRH15D78/ANP-101MC	101M	100 $\pm$ 20%	100.0(80)	1.70
CDRH15D78/ANP-121MC	121M	120 $\pm$ 20%	130.0(104)	1.55
CDRH15D78/ANP-151MC	151M	150 $\pm$ 20%	152.5(122)	1.38
CDRH15D78/ANP-181MC	181M	180 $\pm$ 20%	167.5(134)	1.28
CDRH15D78/ANP-221MC	221M	220 $\pm$ 20%	216.3(173)	1.17

※1. Measuring condition: at 100 kHz.

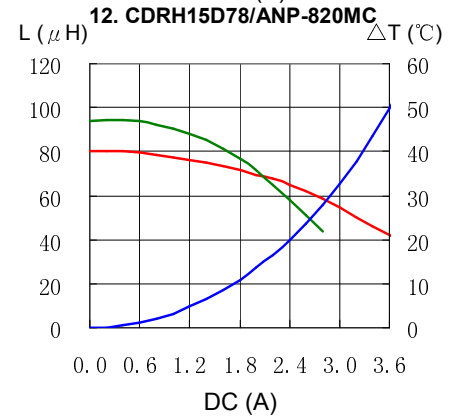
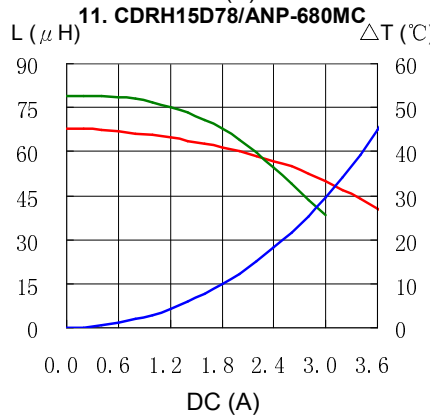
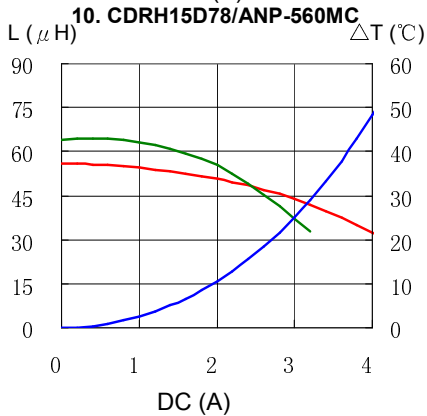
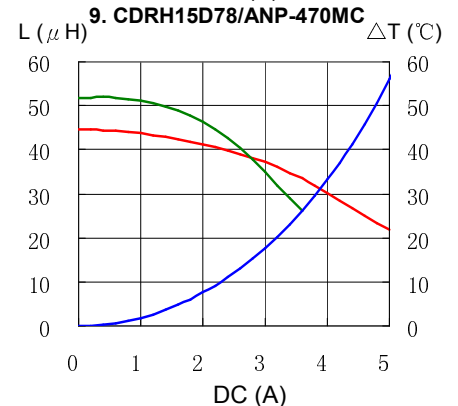
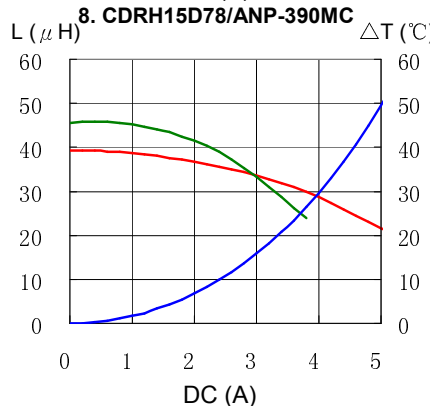
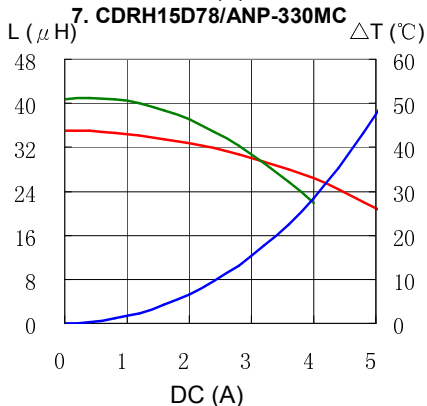
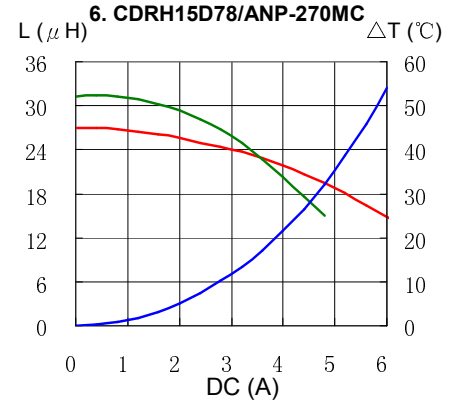
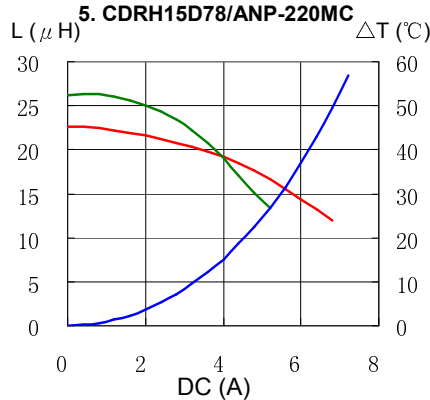
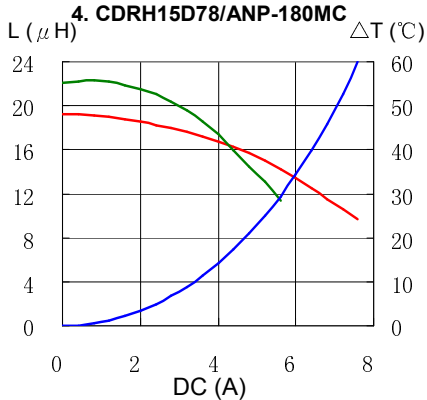
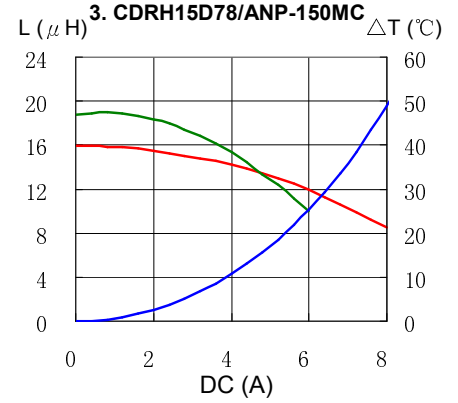
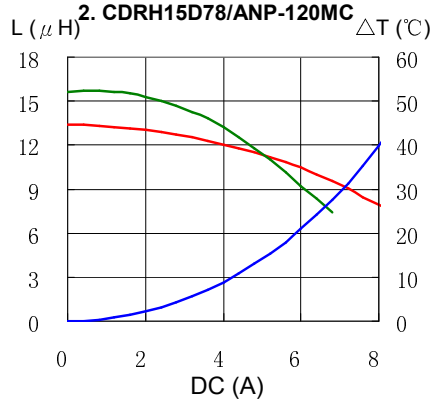
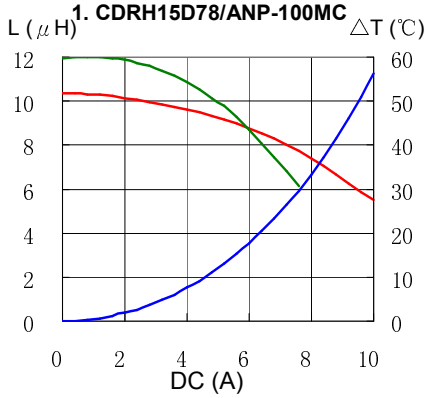
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when  $\Delta t=30^{\circ}\text{C}$ , whichever is lower .

# SMD Power Inductor CDRH15D78/A



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$

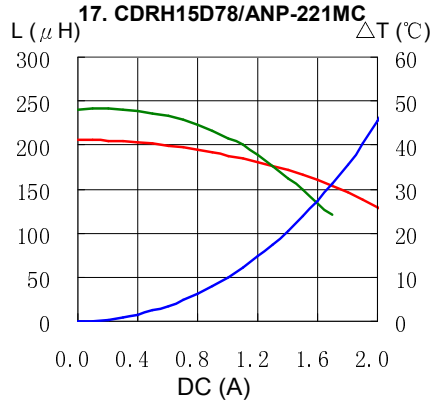
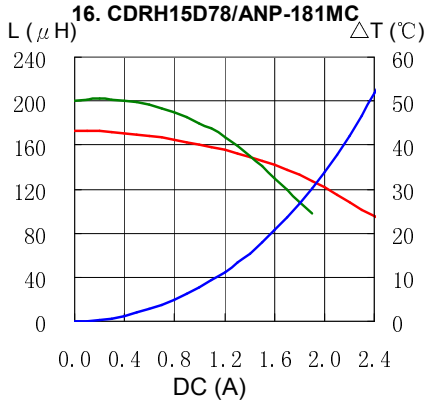
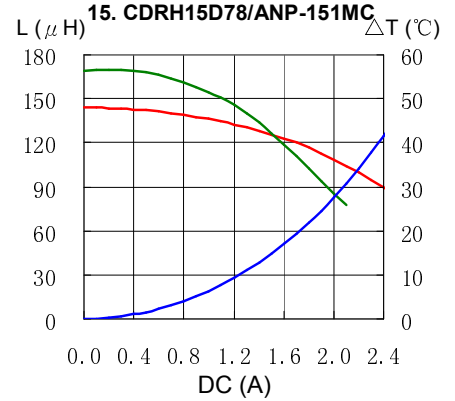
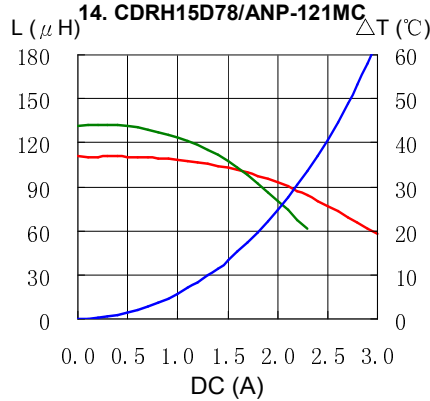
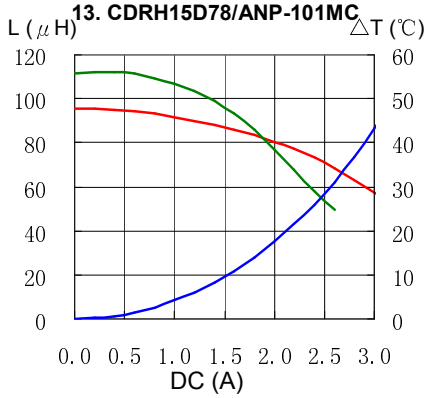


# SMD Power Inductor CDRH15D78/A

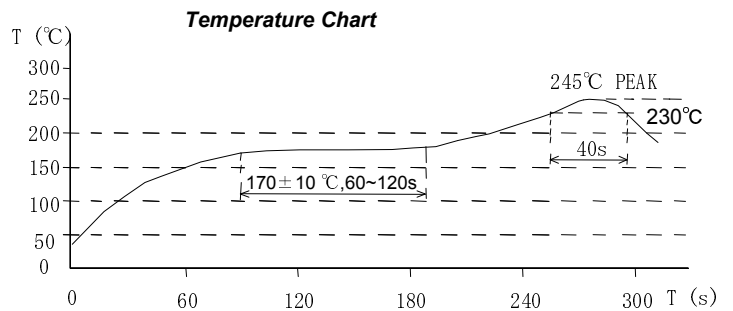
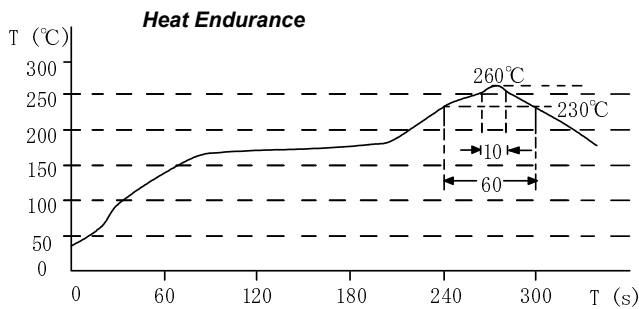


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$



## Solder Reflow Condition



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