

# SMD type Inductor

## CDRH129R



### Discriptions

- Ferrite drum core structure
- Magnetically Shielded
- L × W × H 12.4 × 12.4 × 10.0 mm Max.
- Product weight: 5.3 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance
- Operating temperature range: -40°C~ +105°C (Including self-heating)
- Storage temperature range: -40°C~ +105°C
- Solder reflow temperature: 260 °C peak
- Carrier tape and reel packaging
- 13.0" diameter reel
- 250pcs per reel

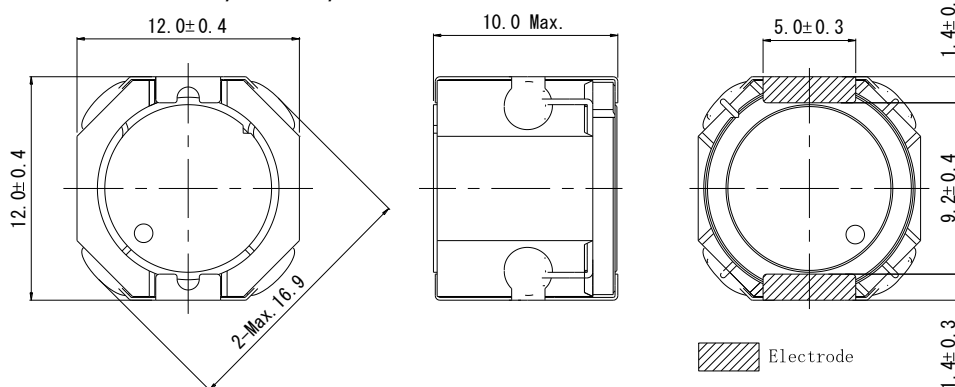


### Applications

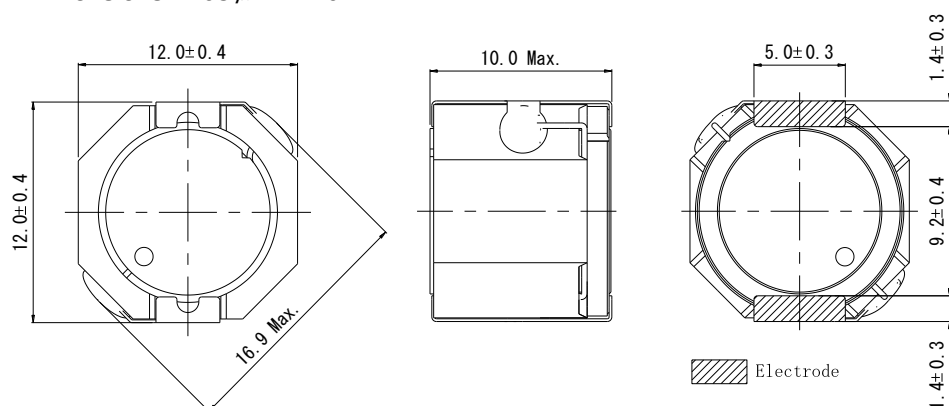
- Ideally used in LED lighting, etc.

### Dimension - [mm]

Dimensions 1: 10  $\mu$  H~56  $\mu$  H



Dimensions 2: 68  $\mu$  H~1.0mH



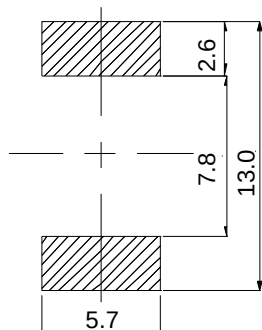
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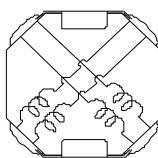
## CDRH129R



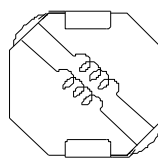
### Reference Land pattern – [mm]



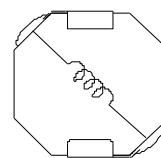
### Connection



10 $\mu$ H~56 $\mu$ H



68 $\mu$ H~330 $\mu$ H



470 $\mu$ H~1.0mH

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### Electrical Characteristics

| Part No.         | Inductance<br>( $\mu$ H) ※1 | D.C.R. ( $\Omega$ )<br>Max. (Typ.) | Saturation Current<br>Max. (Typ.) (A) ※2 | Temperature Rise Current (A)<br>※3 |
|------------------|-----------------------------|------------------------------------|------------------------------------------|------------------------------------|
| CDRH129RNP-100MC | 10 $\pm$ 20%                | 16.5m (13.2m)                      | 7.60 (9.50)                              | 6.50                               |
| CDRH129RNP-150MC | 15 $\pm$ 20%                | 20.3m (16.2m)                      | 5.80 (7.30)                              | 6.00                               |
| CDRH129RNP-220MC | 22 $\pm$ 20%                | 32.9m (26.3m)                      | 5.30 (6.60)                              | 4.70                               |
| CDRH129RNP-330MC | 33 $\pm$ 20%                | 39.3m (31.4m)                      | 4.00 (5.00)                              | 4.25                               |
| CDRH129RNP-470MC | 47 $\pm$ 20%                | 53.4m (42.7m)                      | 3.45 (4.40)                              | 3.80                               |
| CDRH129RNP-560MC | 56 $\pm$ 20%                | 67.0m (53.6m)                      | 3.15 (3.95)                              | 3.25                               |
| CDRH129RNP-680MC | 68 $\pm$ 20%                | 83.5m (66.8m)                      | 2.95 (3.69)                              | 2.85                               |
| CDRH129RNP-820MC | 82 $\pm$ 20%                | 90.6m (72.5m)                      | 2.60 (3.25)                              | 2.75                               |
| CDRH129RNP-101MC | 100 $\pm$ 20%               | 116m (93.0m)                       | 2.40 (3.00)                              | 2.45                               |
| CDRH129RNP-121MC | 120 $\pm$ 20%               | 131m (105m)                        | 2.20 (2.65)                              | 2.30                               |
| CDRH129RNP-151MC | 150 $\pm$ 20%               | 159m (127m)                        | 1.95 (2.45)                              | 2.20                               |
| CDRH129RNP-221MC | 220 $\pm$ 20%               | 226m (181m)                        | 1.60 (2.00)                              | 1.85                               |
| CDRH129RNP-331MC | 330 $\pm$ 20%               | 366m (293m)                        | 1.30 (1.63)                              | 1.45                               |
| CDRH129RNP-471MC | 470 $\pm$ 20%               | 415m (330m)                        | 1.08 (1.35)                              | 1.30                               |
| CDRH129RNP-561MC | 560 $\pm$ 20%               | 521m (417m)                        | 1.00 (1.25)                              | 1.18                               |
| CDRH129RNP-681MC | 680 $\pm$ 20%               | 654m (523m)                        | 910m (1.14)                              | 1.04                               |
| CDRH129RNP-821MC | 820 $\pm$ 20%               | 825m (660m)                        | 820m (1.03)                              | 920m                               |
| CDRH129RNP-102MC | 1000 $\pm$ 20%              | 938m (750m)                        | 750m (940m)                              | 820m                               |

※1 Measuring frequency inductance at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 75% of its initial value.

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

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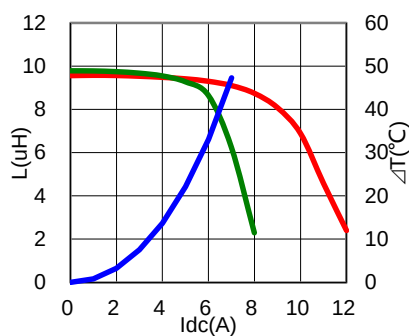
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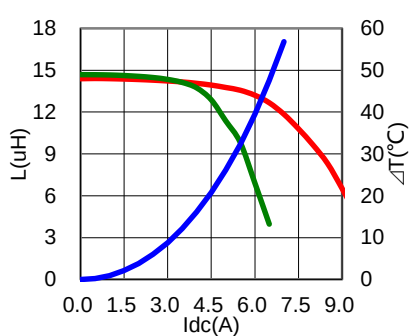


Saturation Current & Temperature Rise Graph    — L (20°C)    — L (105°C)    —  $\Delta T$

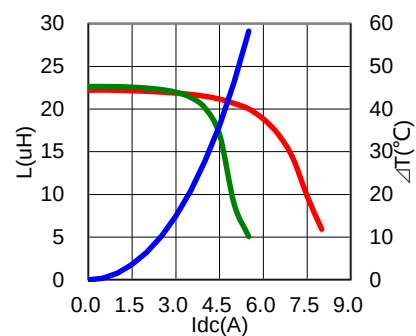
CDRH129RNP-100MC



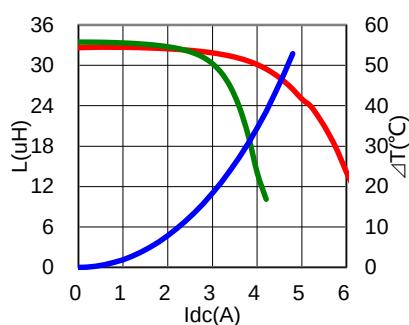
CDRH129RNP-150MC



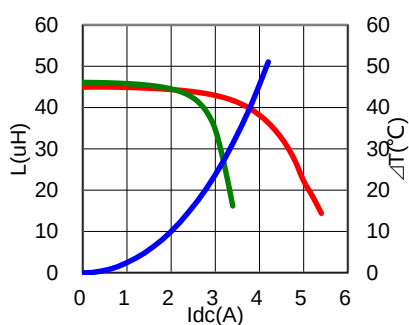
CDRH129RNP-220MC



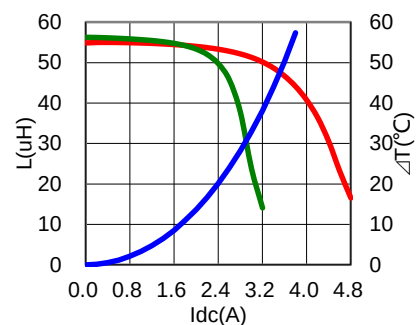
CDRH129RNP-330MC



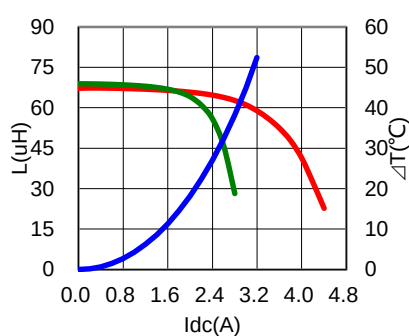
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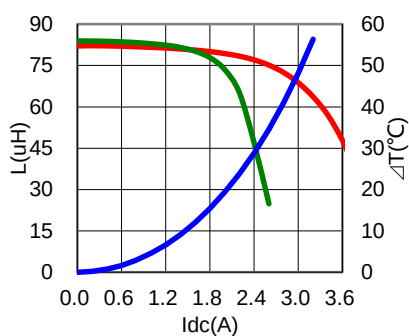
CDRH129RNP-560MC



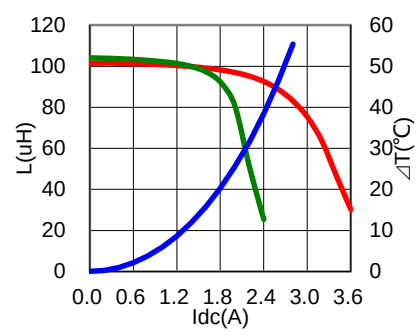
CDRH129RNP-680MC



CDRH129RNP-820MC



CDRH129RNP-101MC

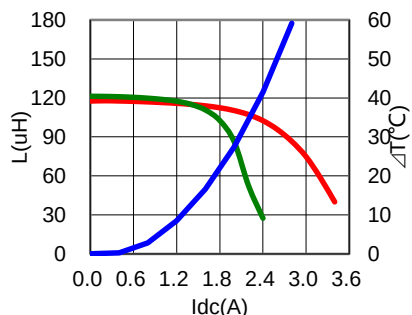


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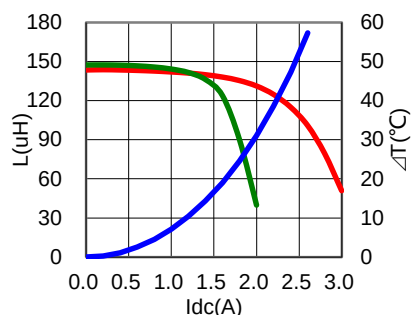
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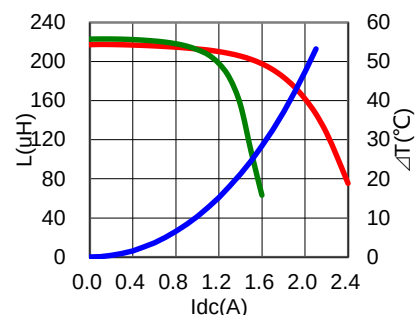
CDRH129RNP-121MC



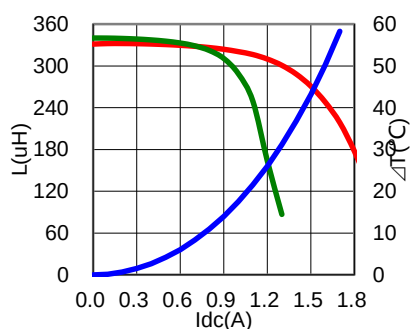
CDRH129RNP-151MC



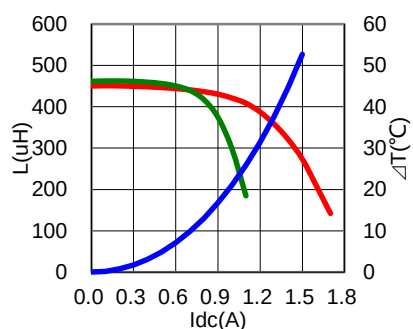
CDRH129RNP-221MC



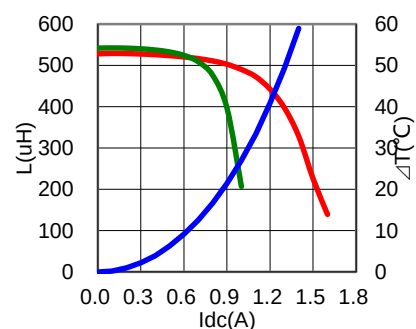
CDRH129RNP-331MC



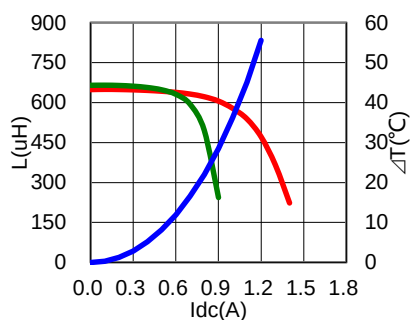
CDRH129RNP-471MC



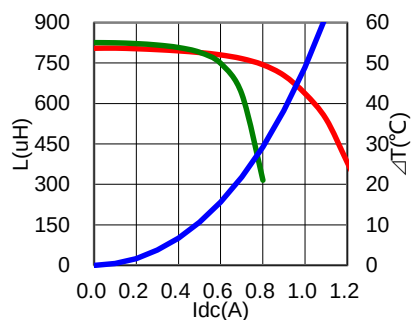
CDRH129RNP-561MC



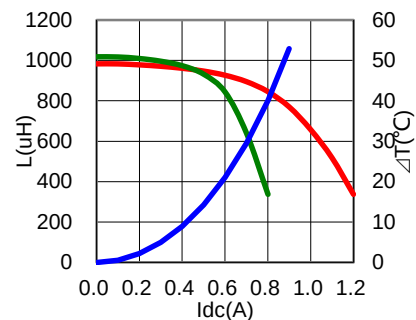
CDEP126NP-681MC



CDEP126NP-821MC



CDRH129RNP-102MC



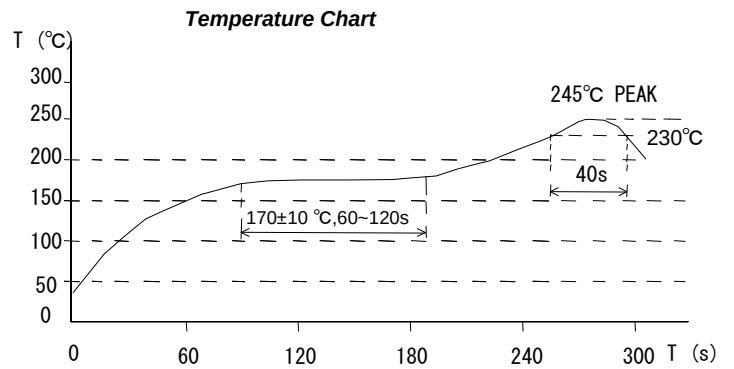
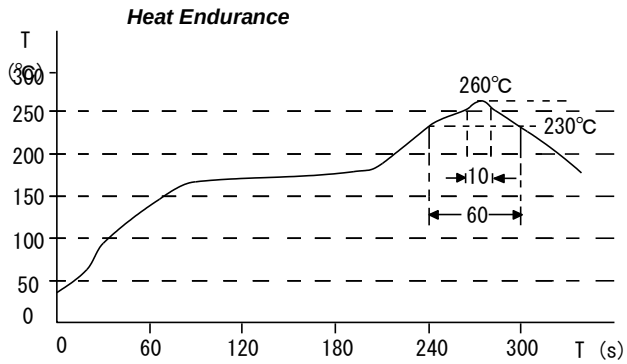
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### Solder Reflow Condition



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