

# SMD Power Inductor CDMC104



Halogen Free



## Description

- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 11.5 × 10.2 × 4.0 mm Max.
- Product weight: 2.5 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +85°C
- Solder reflow temperature: 260 °C peak.

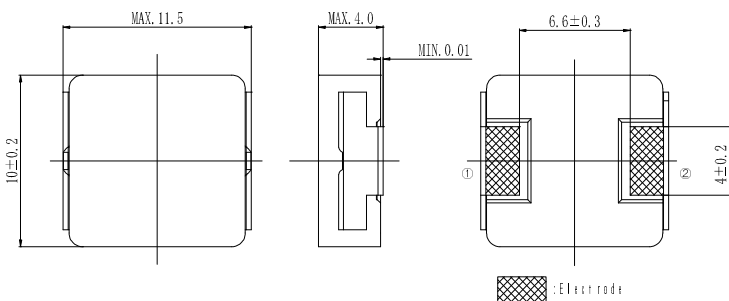
## Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 500pcs per reel

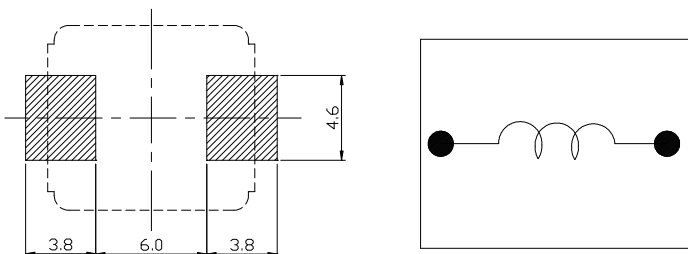
## Applications

- Ideally used in low voltage-high current laptop PC & server power supply.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part No.	Stamp	Inductance [Within] ( $\mu$ H) ※1	D.C.R. [Within] (at 20°C) (m $\Omega$ )	D.C. Saturation current (A)※2		Temperature rise current (A)※3
				(at 20°C)	(at 125°C)	
CDMC104NP-R36M	R36M	0.36 ± 20%	1.10 ± 10%	28.0	27.0	25.0
CDMC104NP-R56M	R56M	0.56 ± 20%	1.48 ± 10%	22.0	21.0	21.0

※1. Measuring condition: at 1MHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

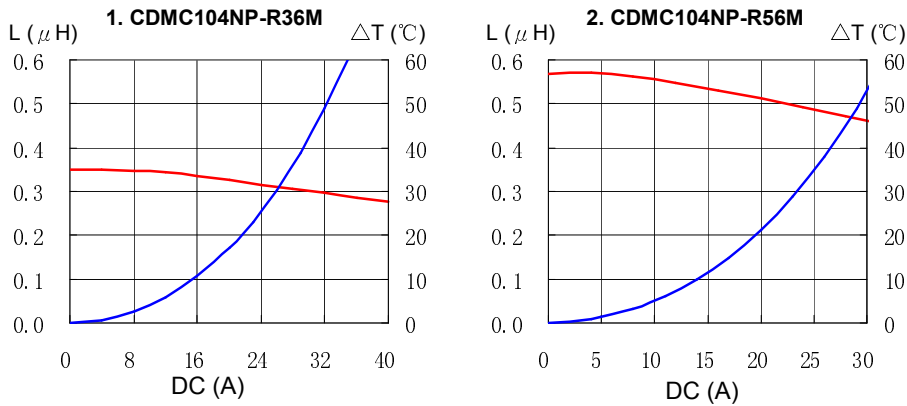
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

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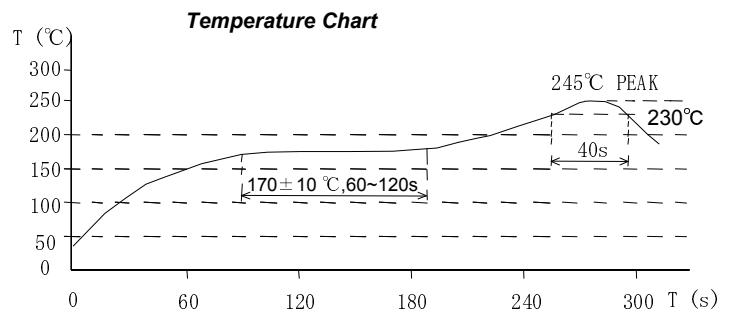
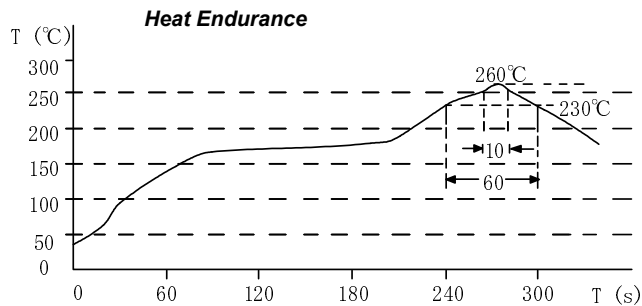


## Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$



## Solder Reflow Condition



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