

# PIN Power Inductor RPT109



Halogen Free



## Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 10.5 × 10.5 × 10.0 mm Max.
- Product weight: 3.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

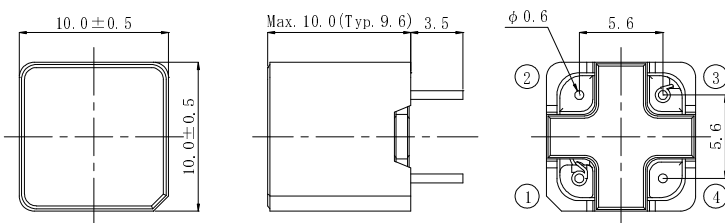
## Environmental Data

- 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.

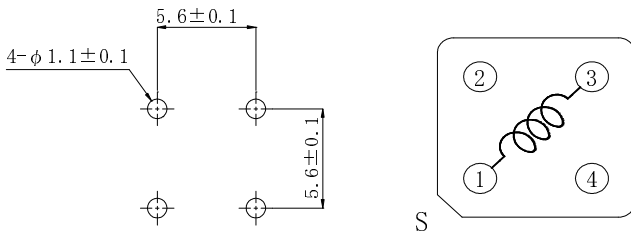
## Packaging

- Box packaging.

## Dimension - inch [mm]



## Land pattern and Schematics - inch [mm]



## Applications

- lamp bulb, fluorescent lamp of LED, etc .

## Electrical Characteristics

Part No.	Inductance (uH) at 100kHz	D.C.R. (Ω) at 20°C	Saturation Current (mA) ※1		Temperature Rise Current (mA) ※2
			(at 20°C)	(at 105°C)	
RPT109NP-561MC	560 ± 20%	2.1 ± 25%	560	450	360
RPT109NP-102MC	1000 ± 20%	3.7 ± 25%	420	350	270
RPT109NP-152MC	1500 ± 20%	6.1 ± 25%	340	280	210
RPT109NP-202MC	2000 ± 20%	10.0 ± 25%	300	245	160

※1. Saturation Current: The DC current at which the inductance decreases to 70% of its nominal value.

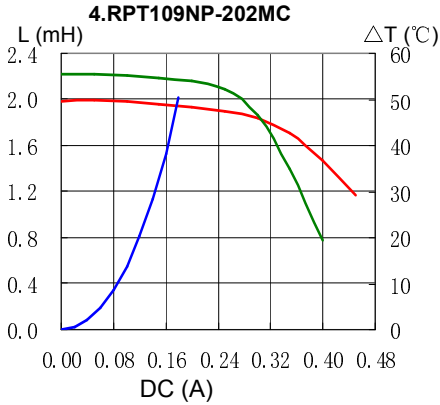
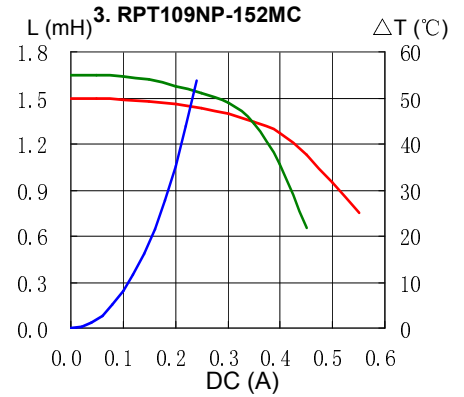
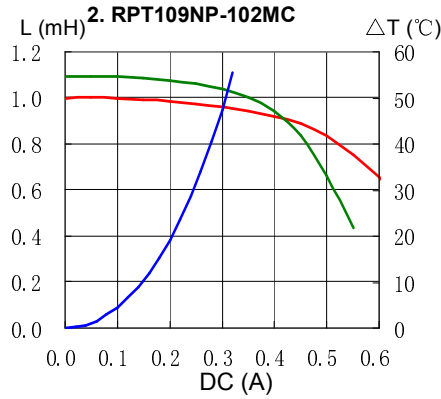
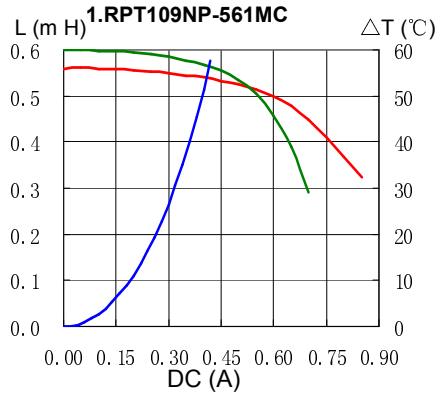
※2. Temperature rise current: The DC current at which the temperature rise is ΔT=40°C.(Ta=20°C)

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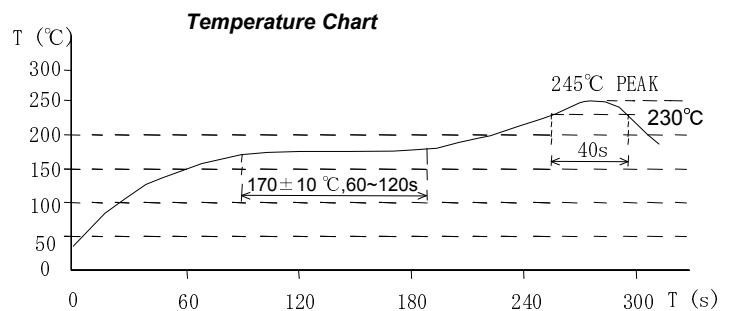
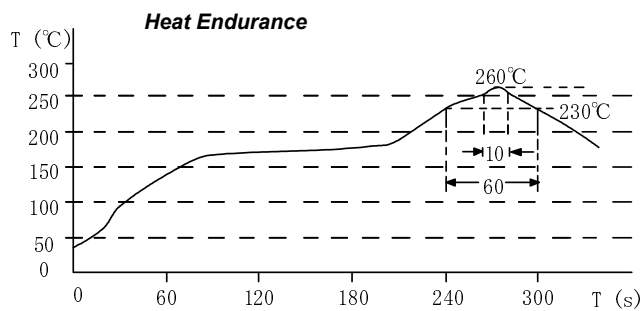


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



## Solder Reflow Condition



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