

# PIN Power Inductor

## RPT109



### Description

- Ferrite core construction
- Magnetically shielded
- LxWxH:10.5x10.5x10mm Max.
- Product weight: 3.4g(Ref.)
- Moisture Sensitivity Level: 1



### Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C

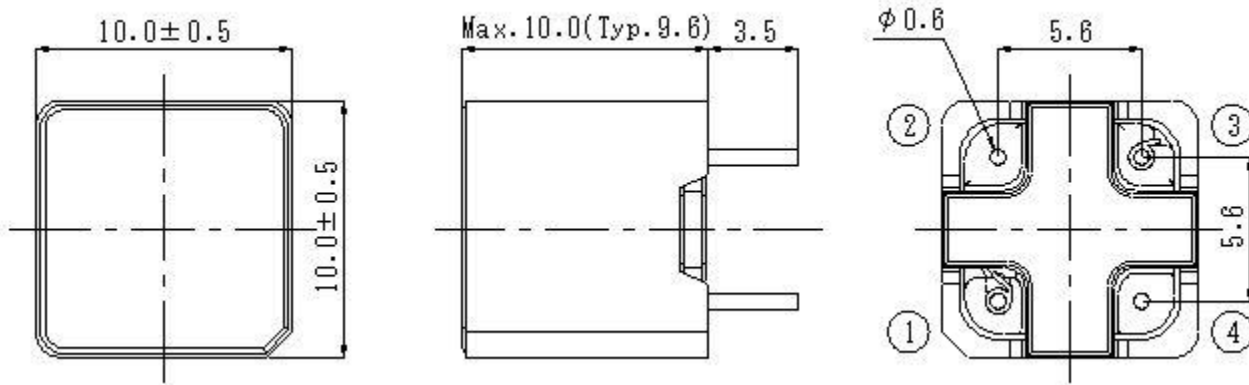
### Packaging

- Pallet packaging

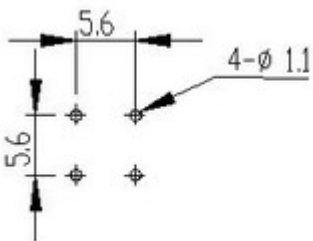
### Applications

- High voltage for LED lighting applications

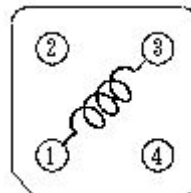
### Dimension - [mm]



### Recommended Land pattern - [mm]



### Wire Connection





### Electrical Characteristics

Part Number	Inductance [Within] ( $\mu$ H) ※1	D.C.R. at 20°C Max.(Typ.) (m $\Omega$ )	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20°C	105°C	
RPT109NP-561MB	560 $\pm$ 20%	2100 $\pm$ 25%	0.56 (0.74)	0.45 (0.60)	(0.36)
RPT109NP-102MB	1000 $\pm$ 20%	3700 $\pm$ 25%	0.42 (0.57)	0.35 (0.47)	(0.27)
RPT109NP-152MB	1500 $\pm$ 20%	6100 $\pm$ 25%	0.34 (0.45)	0.28 (0.36)	(0.21)
RPT109NP-202MB	2000 $\pm$ 20%	10000 $\pm$ 25%	0.30 (0.39)	0.245 (0.32)	(0.16)

※1 Measuring condition at 100kHz 1V.

※2 Saturation current: This indicates the actual value of D.C. current when the inductance decreases to over 70% of its nominal value.

※3 Temperature rise current: 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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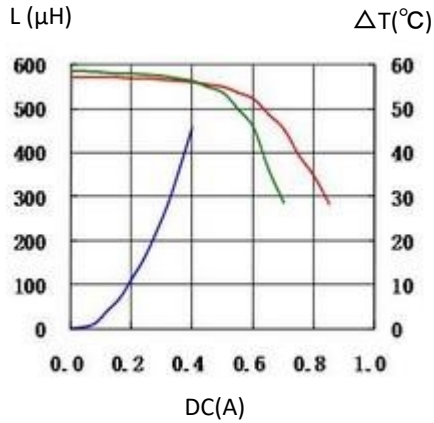
## RPT109



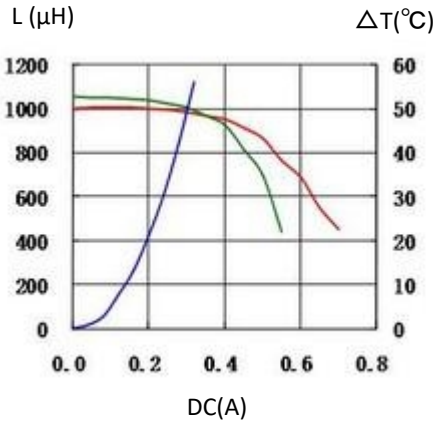
### Saturation Current & Temperature Rise Graph

— L (20°C)    — L (105°C)    —  $\Delta T$

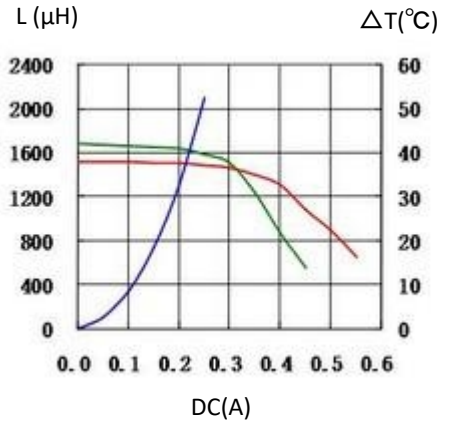
1. RPT109NP-561MB



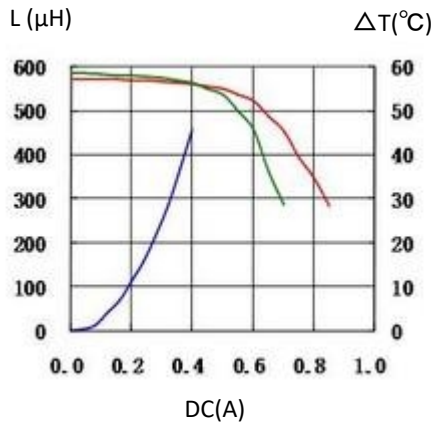
2. RPT109NP-102MB



3. RPT109NP-152MB



4. RPT109NP-202MB



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