

Revision and History

Part No.: SP05-1206100M

Product code: TBD

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Rev.	Date	Revision Description	Checked	Approved
A1	Oct/31/2019	Initial release.	Louise Liu	Cason Chen

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Spec Sheet

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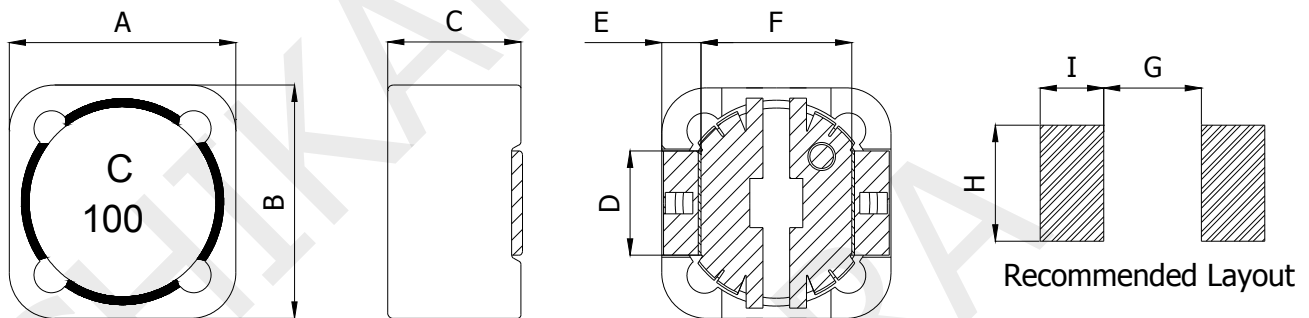
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Features

- Magnetically shielded construction
- Storage temperature range:-40°C to + 125°C
- Operating temperature range:-40°C to + 125°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:500pcs. Per 13-inch reel
- RoHS&Halogen-free compliance

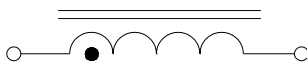


Mechanical Dimension(Unit:mm/inches)



A	B	C	D	E	F	G	H	I
12.3±0.3	12.3±0.3	6.0Max.	5.0±0.2	2.0±0.2	8.0±0.3	6.1	5.5	3.85
0.484±0.012	0.484±0.012	0.236Max.	0.197±0.008	0.079±0.008	0.315±0.012	0.24	0.217	0.151

Electrical Schematic



Part Number Description

SP05 - 1206 100 M
 ① ② ③ ④

- ① Type
- ② Dimensions
- ③ Inductance value
- ④ Tolerance code

Electrical Characteristic

Inductance L0(uH)	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
10±20%	25	21.5	5.5	5.0

- Test frequency and voltage:1KHz,0.25Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop 10% typical.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

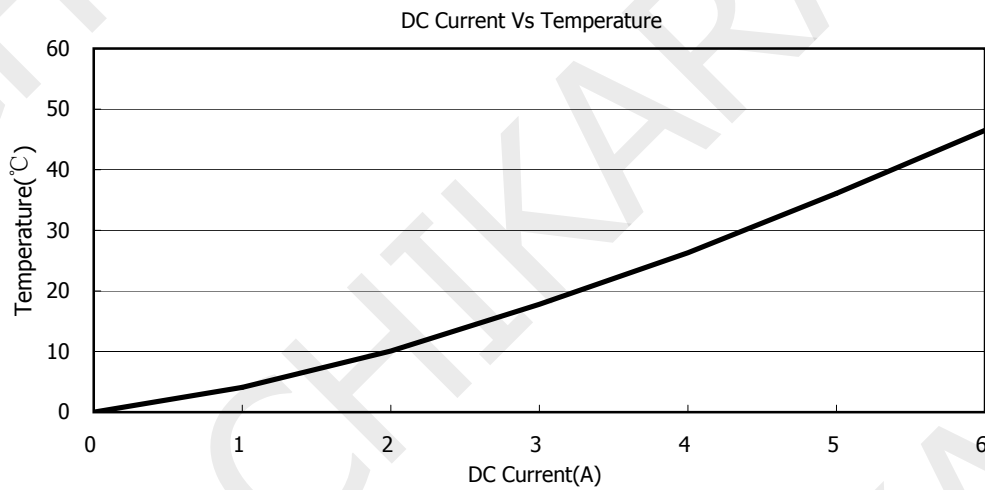
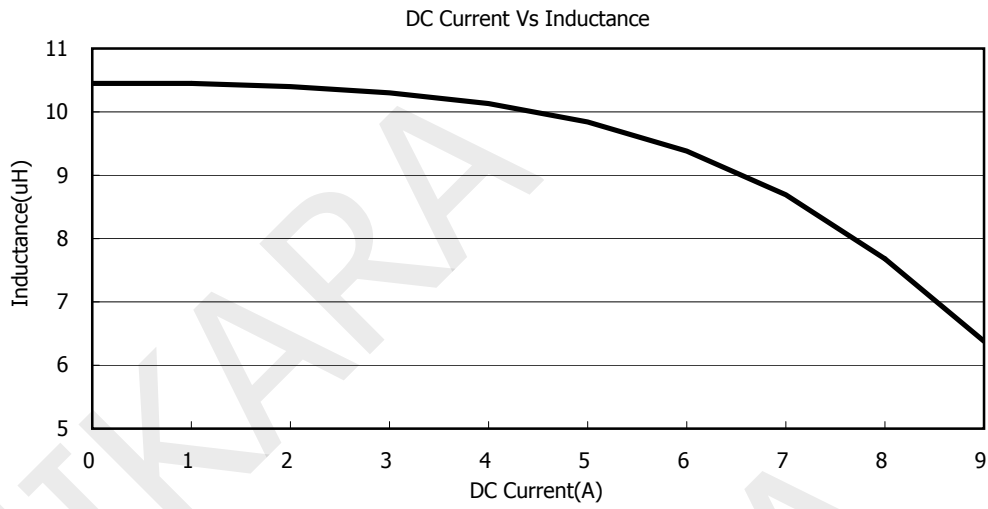
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Characteristic Curve(Typical value)



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Material List

No.	Materials	Description	Suppliers	UL No.
1	Core	Ferrite	Zhongshan CASTLE Technology Co., Ltd. or Equivalent	/
2	Wire	P180 G1 180°C	Elektrisola Hangzhou Co.,Ltd. or Equivalent	E258243
3	Glue	Epoxy Black	Guangzhou WELLS Electronic Material Co. Ltd. or Equivalent	/
4	Tin	Lead-free Sn99.9	Dongguan Thousand Island Metal Foil Co.,Ltd. or Equivalent	/
5	Terminal	Lead-free Cu C1100H	Dongguan Shuo Cheng Electronics Co.,Ltd. or Equivalent	/