

Revision and History

Part No.: SP03-0605A100M

Product code: TBD

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Rev.	Date	Revision Description	Checked	Approved
A1	Oct/18/2019	Initial release.	Louise Liu	Cason Chen

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Spec Sheet

Part No.: SP03-0605A100M

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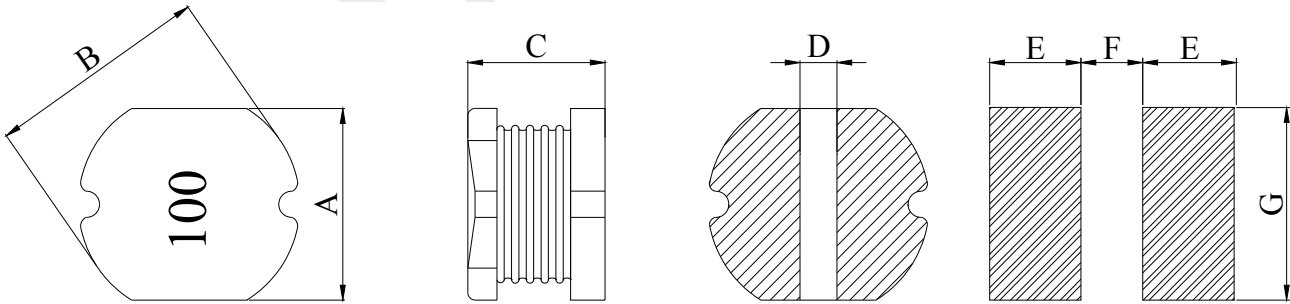
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Features

- High energy storage and very low resistance
- 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:1500pcs. Per 13-inch reel
- RoHS&Halogen-free compliance



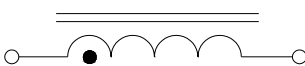
Mechanical Dimension(Unit:mm)



Recommended Layout

A	B	C	D	E	F	G
5.2±0.3	5.8±0.3	4.5±0.3	2.0	2.15	1.7	5.5

Electrical Schematic



Part Number Description

SP03 - 0605A 100 M
 ① ② ③ ④

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

Electrical Characteristic

Inductance L0(uH)	DCR (Ω)Typ.	DCR (Ω)Max.	Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
10±20%	0.078	0.1	2.5	2.2	26

- Test frequency and voltage:100KHz,0.1Vrms.
- 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.

Spec Sheet

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Material List

No.	Materials	Description	Suppliers	UL No.
1	Core	Ni-Zn Ferrite	Zhongshan CASTLE Technology Co., Ltd. or Equivalent	/
2	Wire	P180 G1 180°C	Elektrisola Hangzhou Co.,Ltd. or Equivalent	E258243
3	Tin	Lead-free Sn99.9	Dongguan Thousand Island Metal Foil Co.,Ltd. or Equivalent	/