

Revision and History

Part No.: SP18-0503220N

Product code: TBD

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Rev.	Date	Revision Description	Checked	Approved
A1	May/24/2019	Initial release.	Louise Liu	Cason Chen

Spec Sheet

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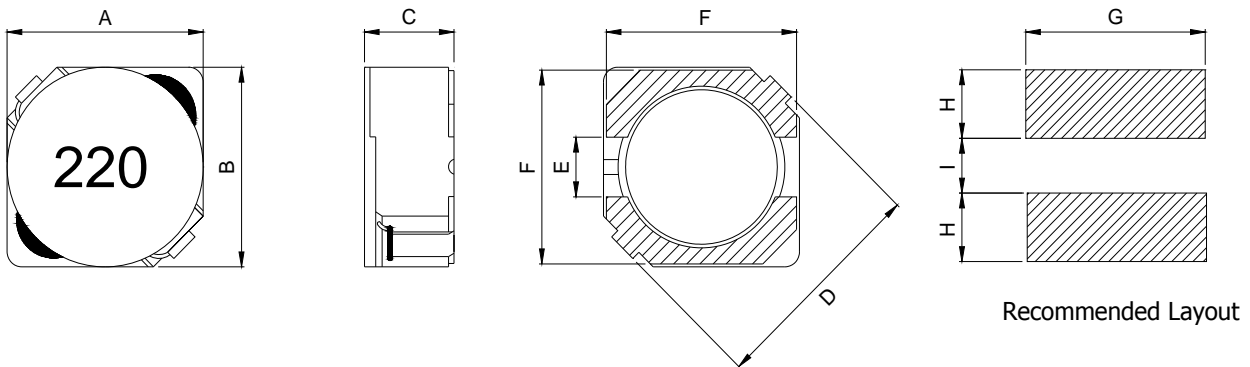
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Features

- 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:2000pcs. Per 13-inch reel
- RoHS&Halogen-free compliance

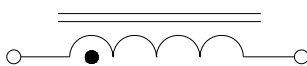


Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
4.7±0.3	4.7±0.3	3.0Max.	6.9Max.	1.5Typ.	4.5Typ.	5.3	1.9	1.5

Electrical Schematic



Part Number Description

SP18 - 0503 220 N

① ② ③ ④

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

Electrical Characteristic

Inductance L0(uH)	DCR (mΩ)Max.	Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
22±30%	185	0.72	0.92	23

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop 35% typical.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

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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	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	/