

Revision and History

Part No.: SP07-0400202R2M

Product code: TBD

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Rev.	Date	Revision Description	Checked	Approved
A1	Jul/30/2019	Initial release.	Louise Liu	Cason Chen

Spec Sheet

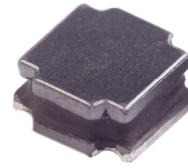
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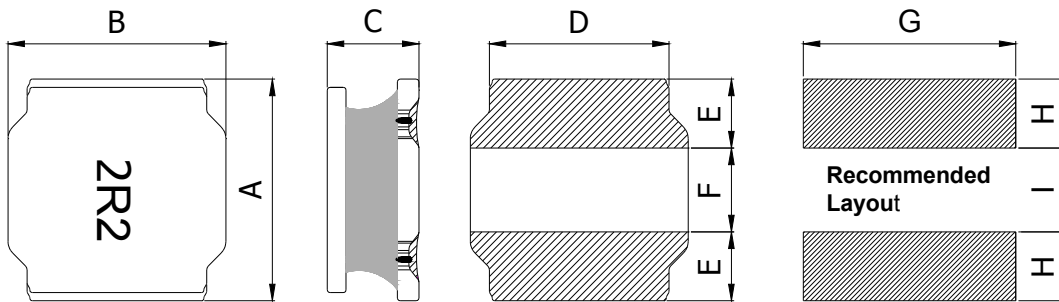
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Features

- Magnetic-resin shielded construction
- Storage temperature range:-40°C to + 85°C
- Operating temperature range:-40°C to + 125°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:3000pcs. Per 13-inch reel
- RoHS&Halogen-free compliance

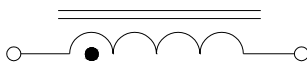


Mechanical Dimension(Unit:mm/inches)



A	B	C	D	E	F	G	H	I
4.0±0.2	4.0±0.2	2.0 Max.	3.1	0.95	2.1	3.7	1.1	1.9
0.158±0.008	0.158±0.008	0.079 Max.	0.122	0.037	0.083	0.146	0.043	0.075

Electrical Schematic



Part Number Description

SP07 - 040020 2R2 M
 ① ② ③ ④

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

Electrical Characteristic

Inductance L0(uH)	DCR (Ω)±30%	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
2.2±20%	0.04	33	7.6	4.3

- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop 30% typical.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

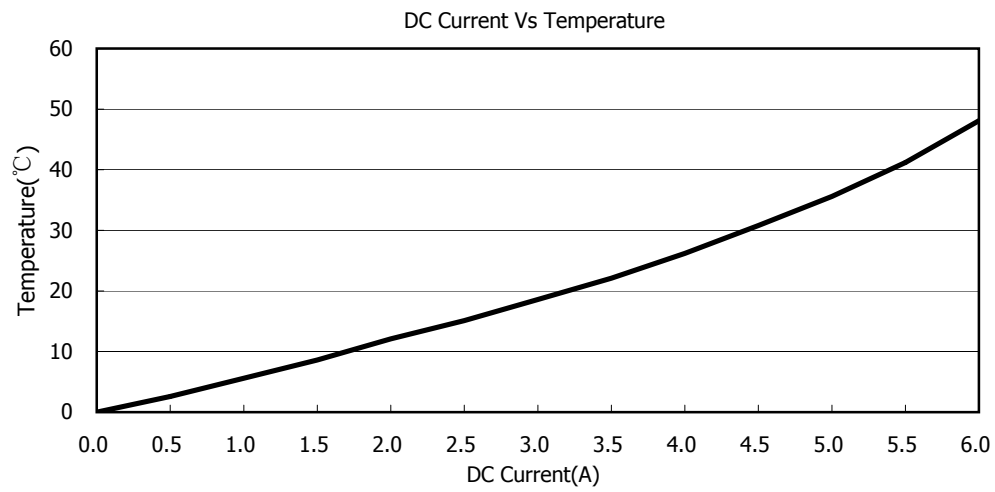
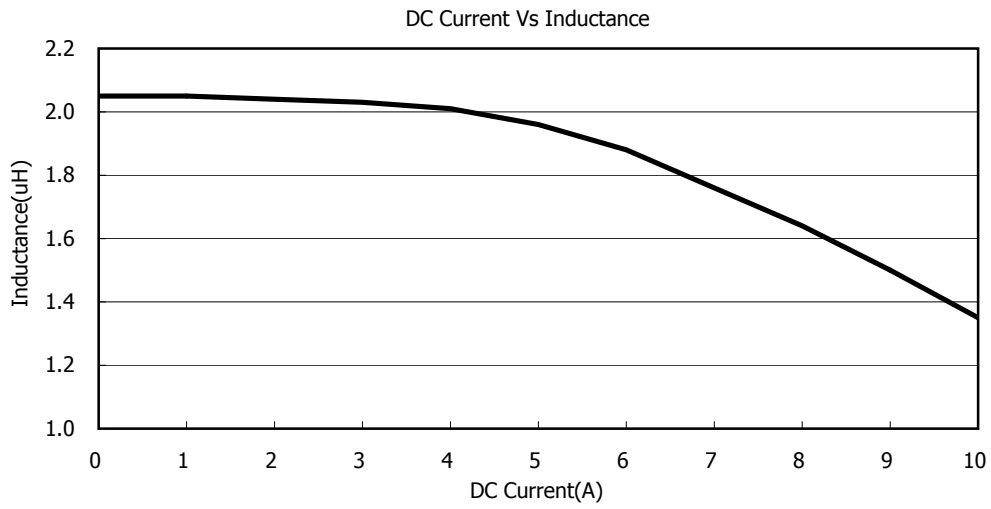
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Characteristic Curve



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Material List

No.	Materials	Description	Suppliers	UL No.
1	Core	Alloyed powder	Dongguan Chikara Electronics Technology Co.,Ltd.	/
2	Wire	P180 G1 180°C	Elektrisola Hangzhou Co.,Ltd. or Equivalent	E258243
3	Glue	Epoxy Black	Dongguan Duguang Electronic Technology Co. Ltd. or Equivalent	/
4	Tin	Lead-free Sn99.9	Dongguan Thousand Island Metal Foil Co.,Ltd. or Equivalent	/