

## Revision and History

Part No.: SP15-0470201R5M03

Product code: TBD

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Rev.	Date	Revision Description	Checked	Approved
A1	Sep/29/2020	Initial release.	Louise Liu	Cason Chen
A2	Jun/13/2021	Update dimensions and electrical characteristics	Louise Liu	Cason Chen

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# Spec Sheet

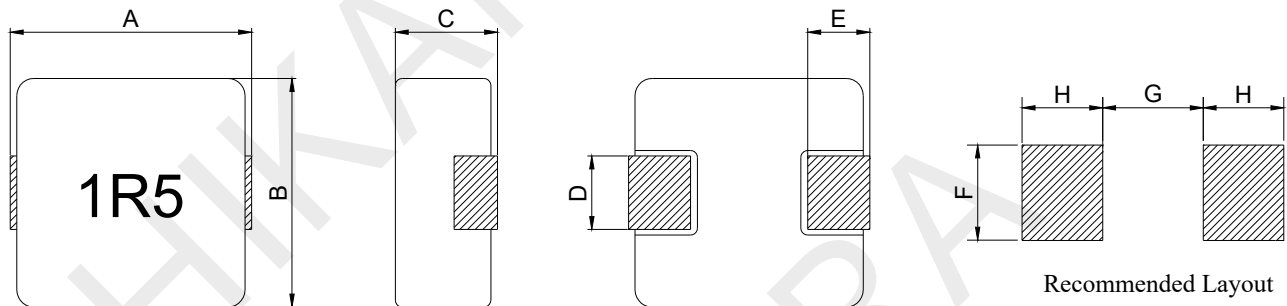
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## Features

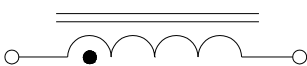
- Shielded construction, High saturation current
- Storage temperature range:-55°C to + 125°C
- Operating temperature range:-55°C to + 125°C  
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:3000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant

## Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H
4.4±0.3	4.2±0.3	2.0Max.	2.0	0.76	2.5	1.9	1.55

## Electrical Schematic



## Part Number Description

SP15 - 047020 1R5 M 03  
 ①                      ②                      ③    ④    ⑤

- ① Type
- ② Dimensions
- ③ Inductance value
- ④ Tolerance code
- ⑤ Material code

## Electrical Characteristic

Inductance L0(uH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	Isat (A)Typ.	Irms (A)Typ.
1.5±20%	33	42	7.5	4.8

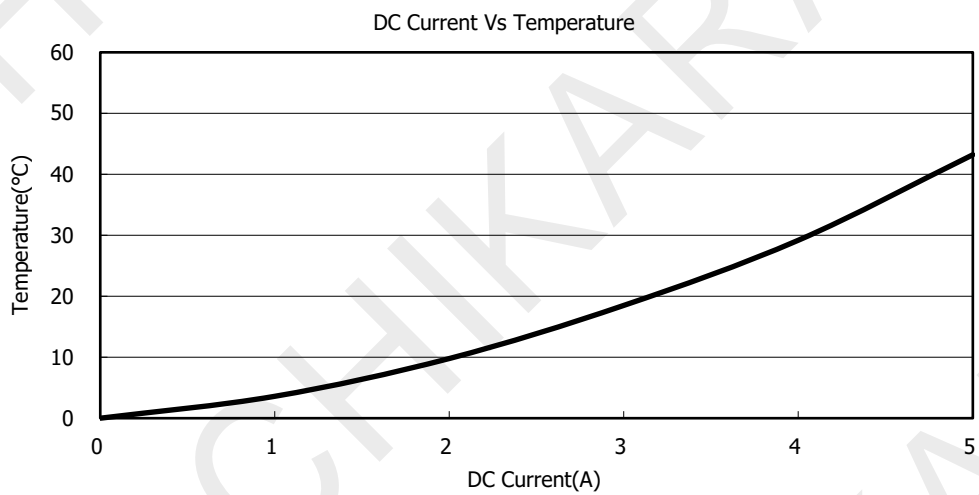
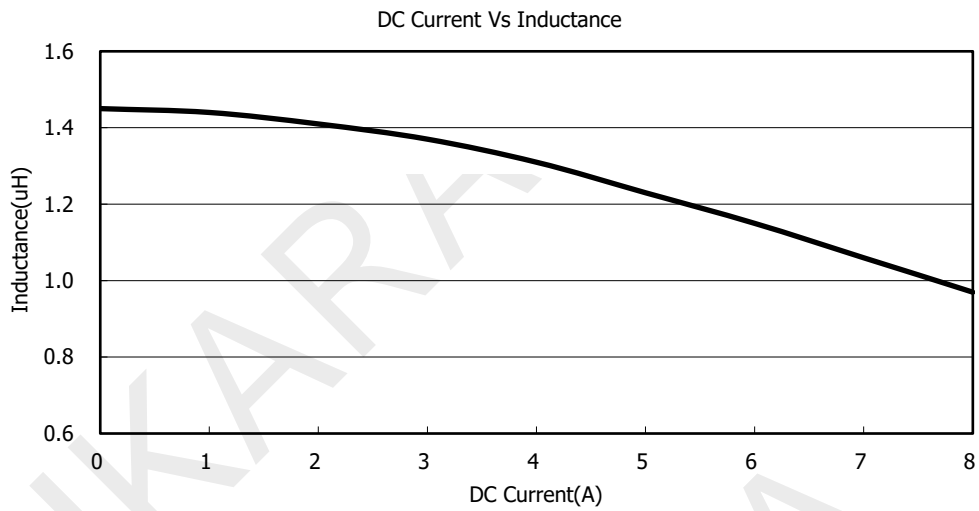
- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop 30% typical.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

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## Characteristic Curve(Typical value)



## Spec Sheet

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### Material List

No.	Materials	Description	Suppliers	UL No.
1	Core	Alloyed powder	Dongguan Chikara Electronics Technology Co.,Ltd.	/
2	Wire	1-AILOCK GT 220°C	TOTOKU(Zhejiang)Co.,Ltd. or Equivalent	E339330
3	Terminal	Lead-free Cu C1100H	Dongguan Shuo Cheng Electronics Co.,Ltd. or Equivalent	/