

## Revision and History

Part No.: SP14-0700502R2M03

Product code: TBD

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Rev.	Date	Revision Description	Checked	Approved
A1	Aug/07/2019	Initial release.	Louise Liu	Cason Chen

# Spec Sheet

Part No.: SP14-0700502R2M03      Product code: TBD

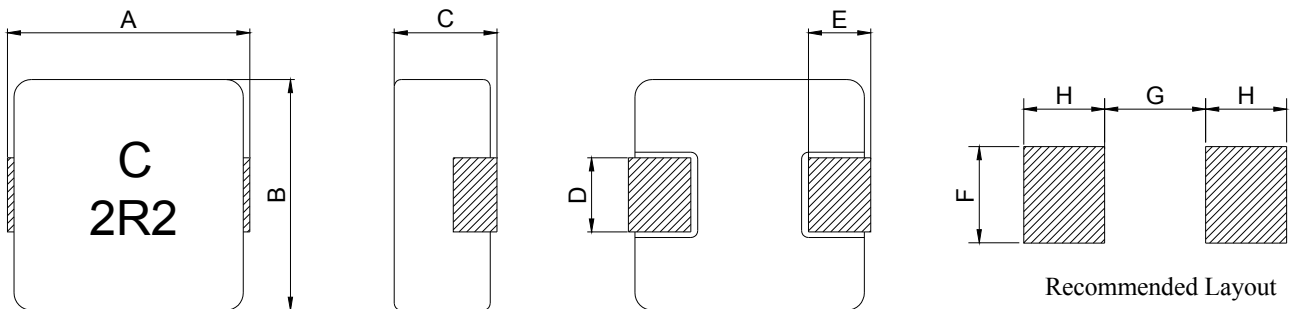
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## Features

- 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:1000pcs. Per 13-inch reel
- RoHS&Halogen-free compliance



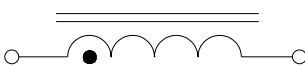
## Mechanical Dimension(Unit:mm/inches)



Recommended Layout

A	B	C	D	E	F	G	H
7.3±0.3	6.8±0.3	5.0 Max.	3.0±0.3	1.6±0.3	3.5	3.5	2.5
0.287±0.012	0.268±0.012	0.197 Max.	0.118±0.012	0.063±0.012	0.138	0.138	0.098

## Electrical Schematic



## Part Number Description

SP14 - 070050 2R2 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.
2.2±20%	10.5	12	14	7.5

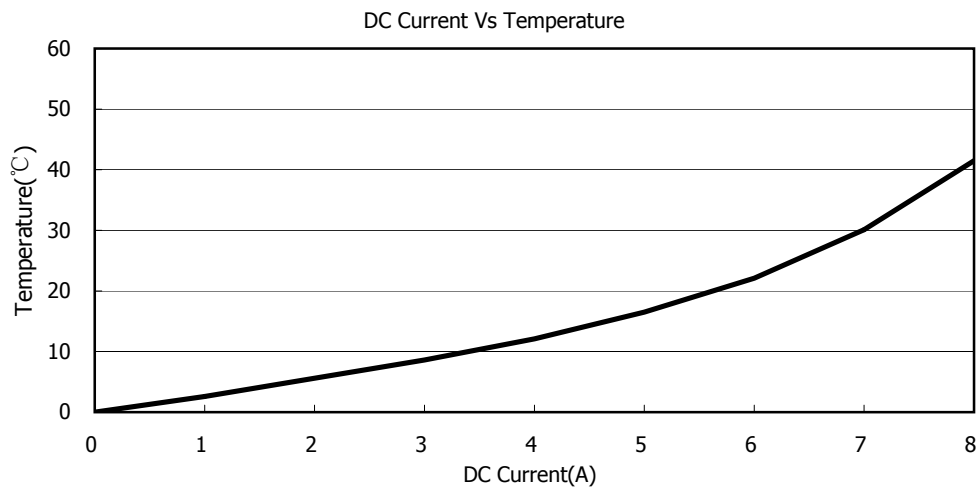
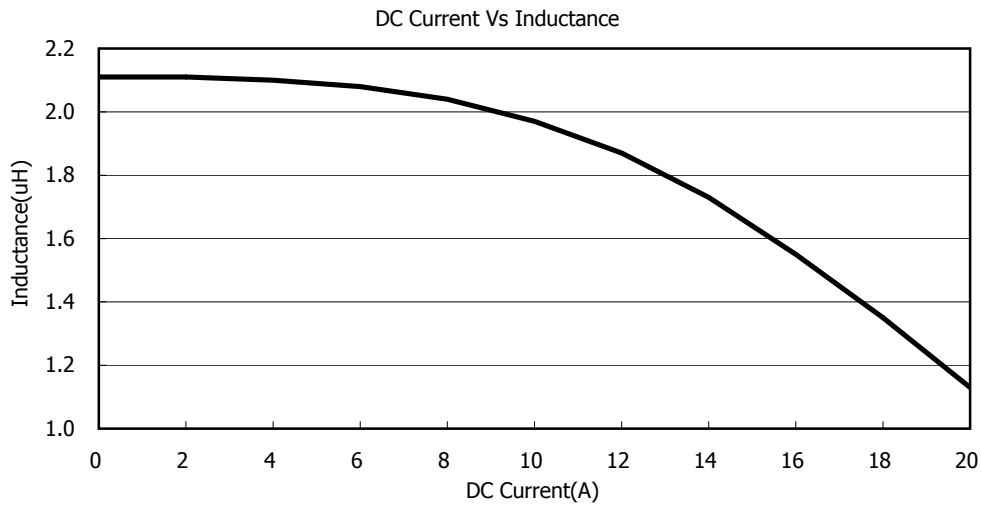
- Test frequency and voltage:100KHz,0.25Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop 20% typical.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

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## Characteristic Curve



# 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	/