

Revision and History

Part No.: SP03-0403A470K

Product code: TBD

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Rev.	Date	Revision Description	Checked	Approved
A1	May/23/2019	Initial release.	Louise Liu	Cason Chen

Spec Sheet

Part No.: SP03-0403A470K

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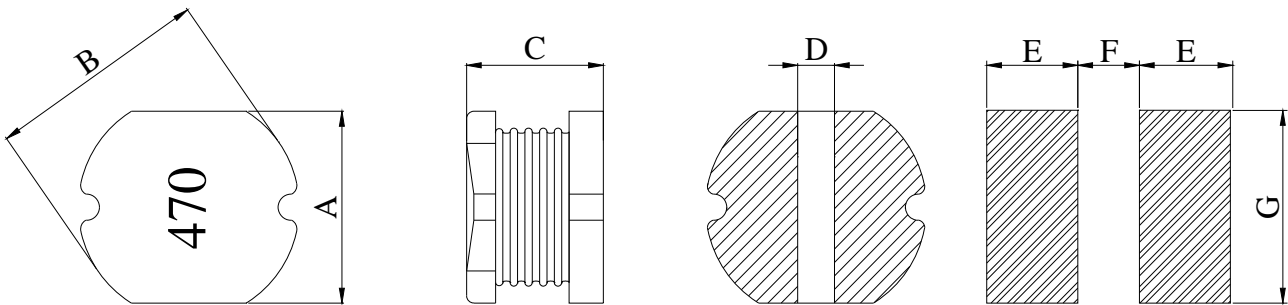
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Features

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



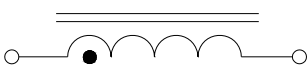
Mechanical Dimension(Unit:mm)



Recommended Layout

A	B	C	D	E	F	G
4.0±0.3	4.5±0.3	3.2±0.3	1.4	1.75	1.5	4.5

Electrical Schematic



Part Number Description

SP03 - 0403A 470 K

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.	Rated Current (A)Typ.
47±10%	0.66	0.844	0.54

- Test frequency and voltage:1KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=25^{\circ}\text{C}$).

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	/