

# Inductor



## Figure



Type A



Type B



Type C

Note: The image shown here is indicative only. If there is inconsistency between the image and the actual product, the actual product shall govern.

## Specifications:

<b><u>SERIES : SKPC-ERCB2.5-XXX</u></b>	
Test Conditions:	<b>25°C 10KHz 1V</b>
Inductance :	<b>2.5μH±5% (No Current)</b>
Dimensions(L*W*H):	<b>43*33*13mm</b>
Pins and Connection	<b>2*Terminals</b>
Hi-Pot(Wire to Core)	<b>1KV/3KV/5KV DC<sup>①</sup></b>

<b>Model</b>	<b>Type</b>	<b>DCR Max</b> 20°C	<b>Isat</b> L drops 20% (Max)	<b>Irms</b> Temperature Rise 40°C (Max.) @	<b>Weight</b> (Max)
SKPC-ERCB2.5-2A(135)	A	0.5mΩ	40A	36A	53g
SKPC-ERCB2.5-3B(135)	B	0.6mΩ	68A	38.4A	63g
SKPC-ERCB2.5-4B(135)	B	1.1mΩ	90A	28.8A	63g
SKPC-ERCB2.5-5C(135)	C	2.6mΩ	118A	9.6A	59g
SKPC-ERCB2.5-6C(135)	C	3.3mΩ	151A	9.6A	63g

Operating temperature: -40°C to +75°C

Note:

1. Classification of different Hi-Pot level : **1-1KVDC/3-3KVDC/5-5KVDC**
2. Since different ways of heat dissipation affect Temperature rise, Temperature rise is reference.

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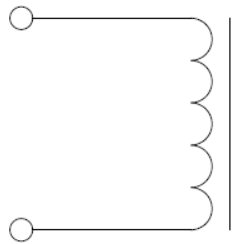


## Material List

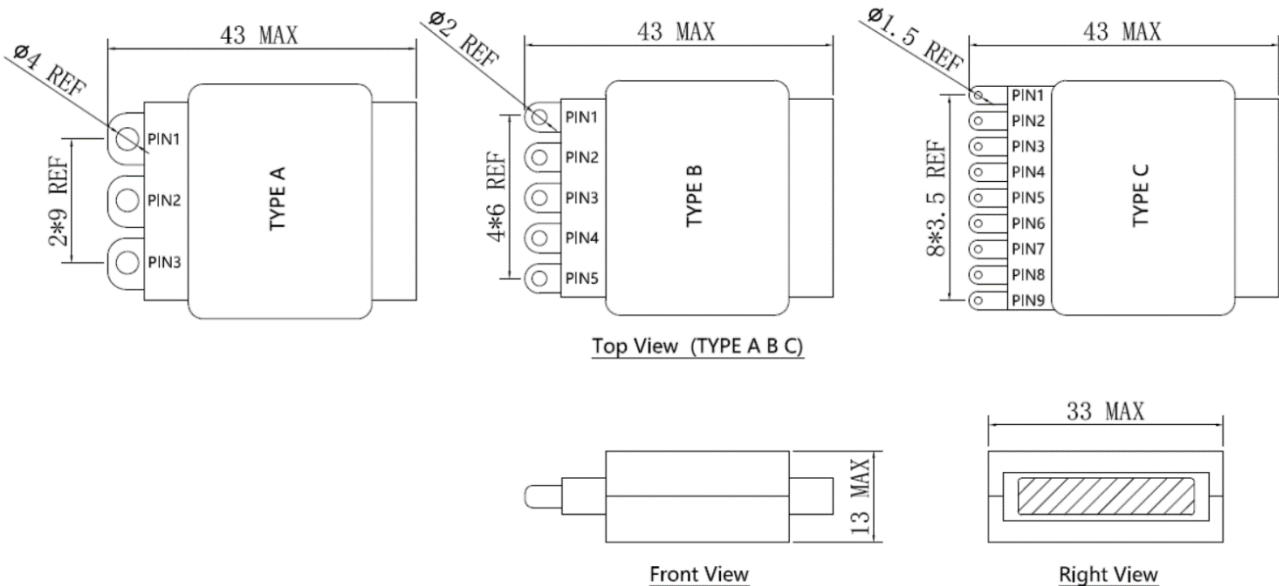
No.	Item	Material Description
1	Core	Ferrite
2	Wire	Copper
3	Solder (Lead Free)	SnAg3%Cu
4	Insulation	Polyimide+Polyamide-imide Resin

Note: Temperature tolerance grade: **H CLASS**

## Schematic Diagram



## Configurations and Dimensions (mm)

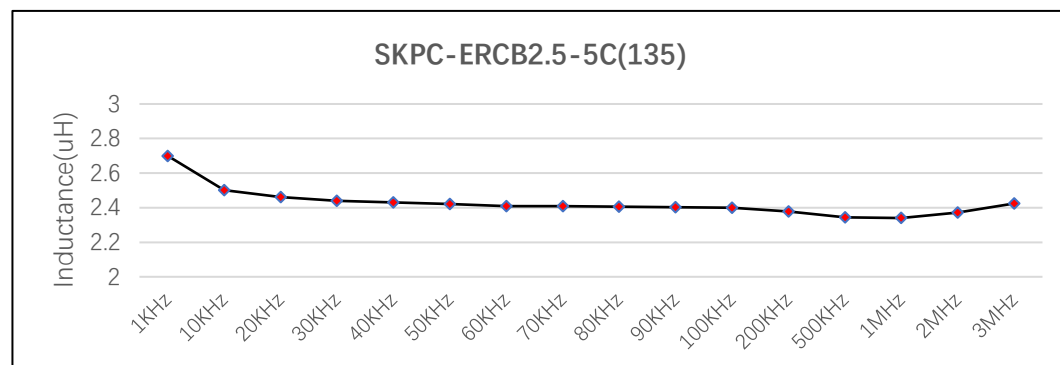
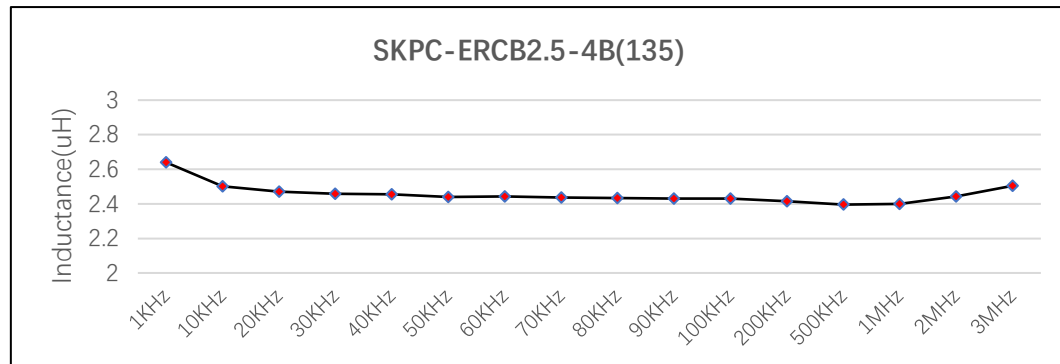
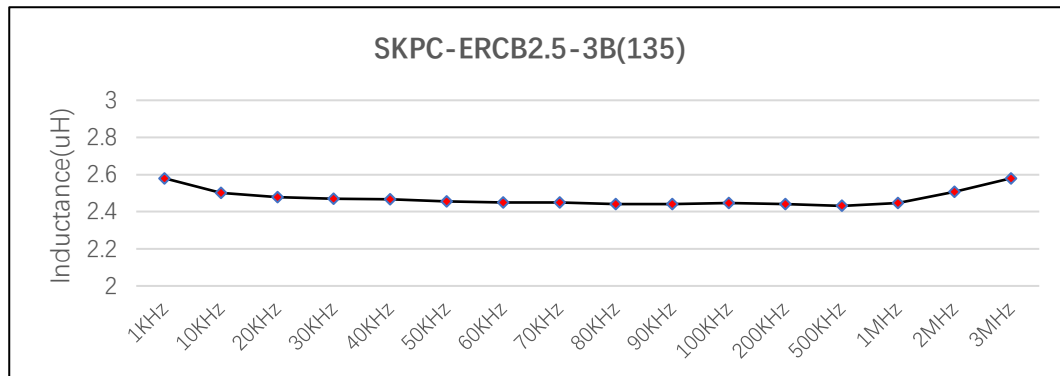
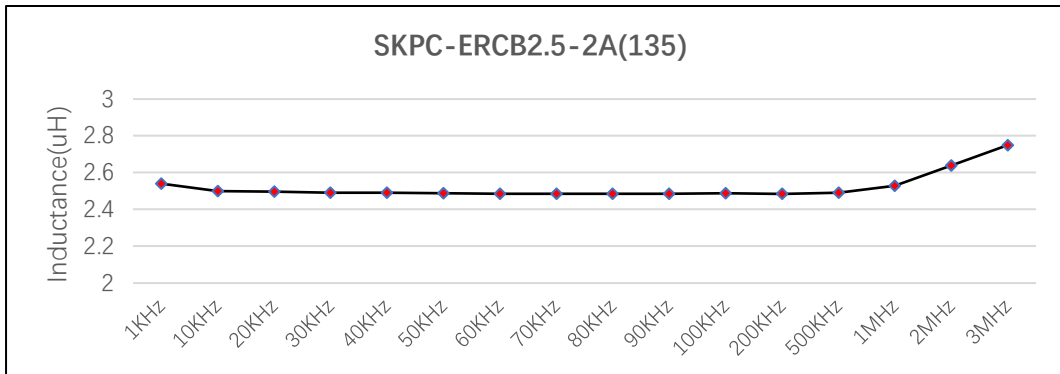


Model.	Type	Description of pins
SKPC-ERCB2.5-2A(135)	A	PIN1+PIN3
SKPC-ERCB2.5-3B(135)	B	PIN1+PIN4
SKPC-ERCB2.5-4B(135)	B	PIN1+PIN5
SKPC-ERCB2.5-5C(135)	C	PIN2+PIN7
SKPC-ERCB2.5-6C(135)	C	PIN2+PIN8

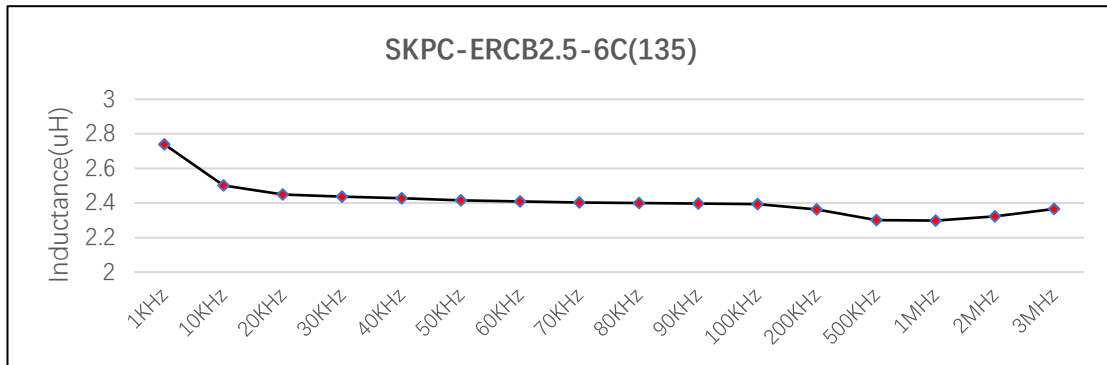
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## L(uH) vs Frequency(KHz)

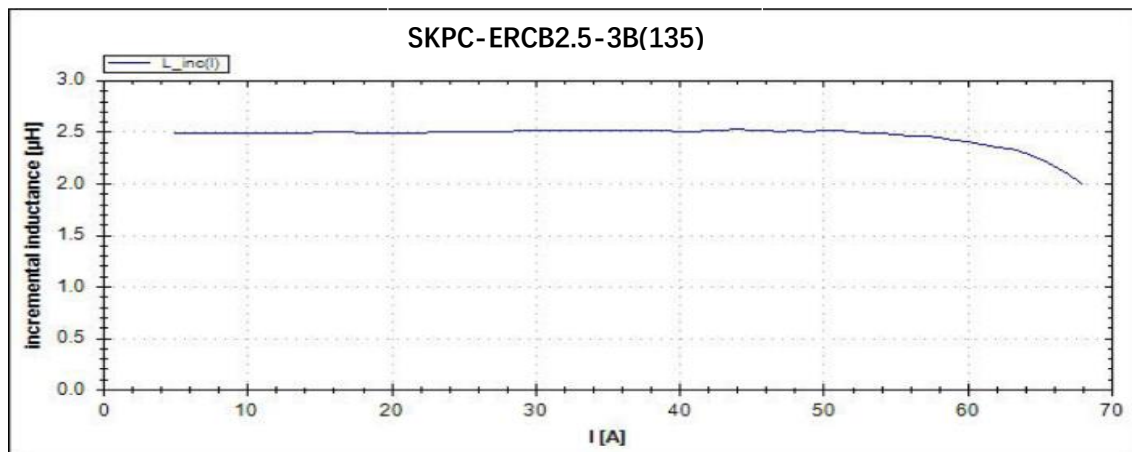
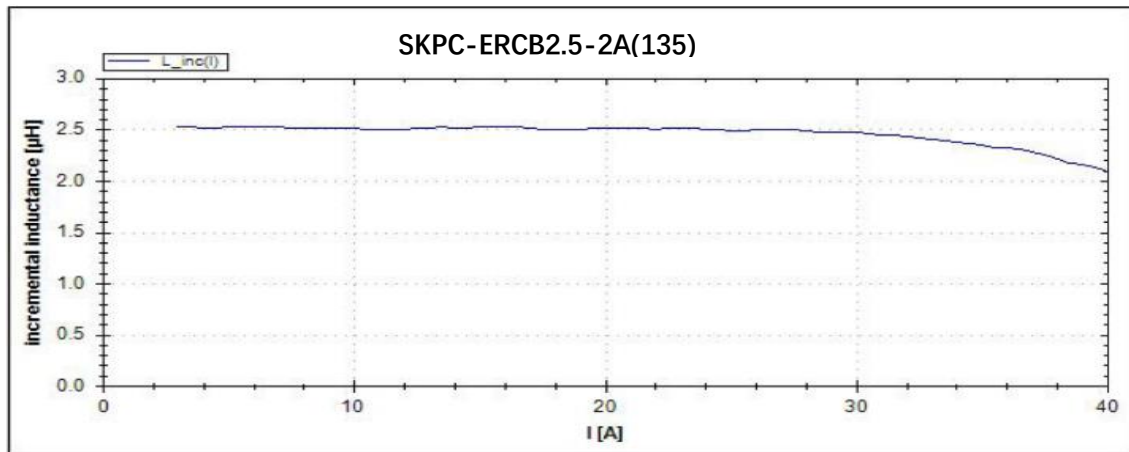


# Inductor

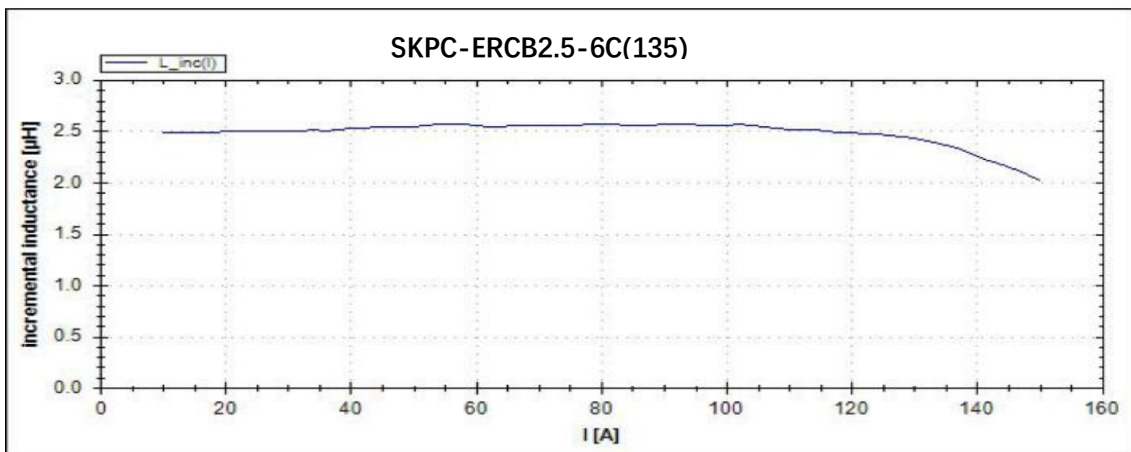
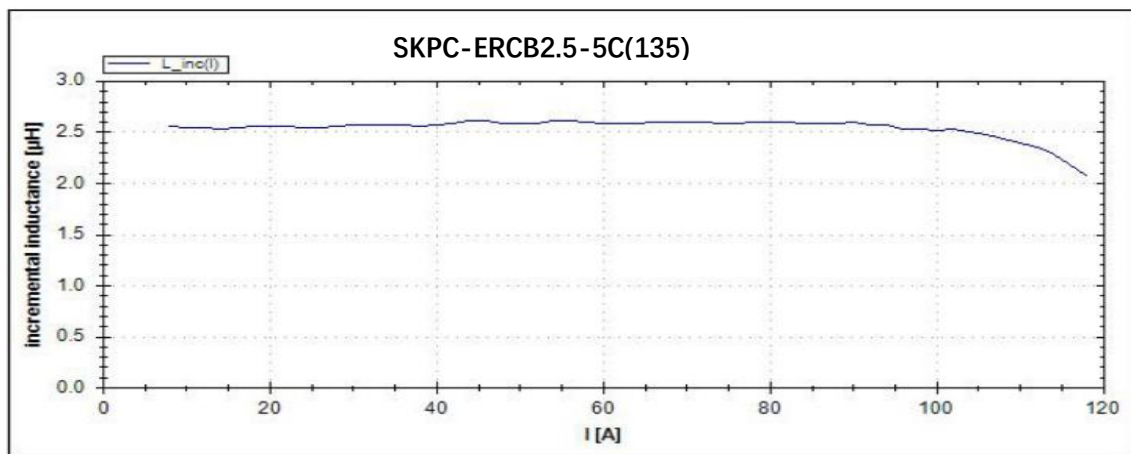
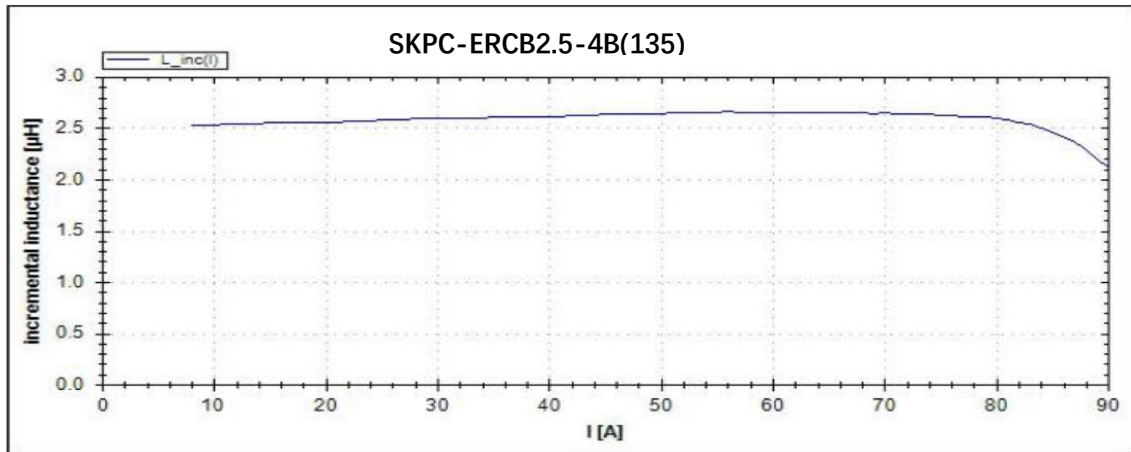


Note: This data is based on the WK-3260B.

## L(uH) vs Current(A)



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Note: This data is based on the DPG10 Power Choke Tester.