

# 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-ERCB15-XXX</u></b>	
Test Conditions:	<b>25°C 10KHz 1V</b>
Inductance :	<b>15μH±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-ERCB15-4B(135)	B	3.4mΩ	13A	9.6A	47g
SKPC-ERCB15-5C(135)	C	4.0mΩ	16A	9.6A	59g
SKPC-ERCB15-6C(135)	C	3.3mΩ	20A	9.6A	63g
SKPC-ERCB15-7C(135)	C	8.4mΩ	24A	4.8A	53g
SKPC-ERCB15-8C(135)	C	9.4mΩ	29A	4.8A	55g
SKPC-ERCB15-9C(135)	C	10.4mΩ	32A	4.8A	55g
SKPC-ERCB15-10C(135)	C	11.5mΩ	35A	4.8A	57g
SKPC-ERCB15-11C(135)	C	12.9mΩ	40A	4.8A	57g
SKPC-ERCB15-12C(135)	C	14.1mΩ	44A	4.8A	57g

Operating temperature: -40°C to +75°C

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Note:

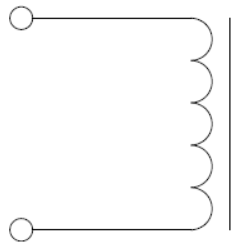
1. Classification of different Hi-Pot level : 1-1KVDC/3-3KVDC/5-5KVDC
2. Since different ways of heat dissipation affect Temperature rise, Temperature rise is reference.

## Material List

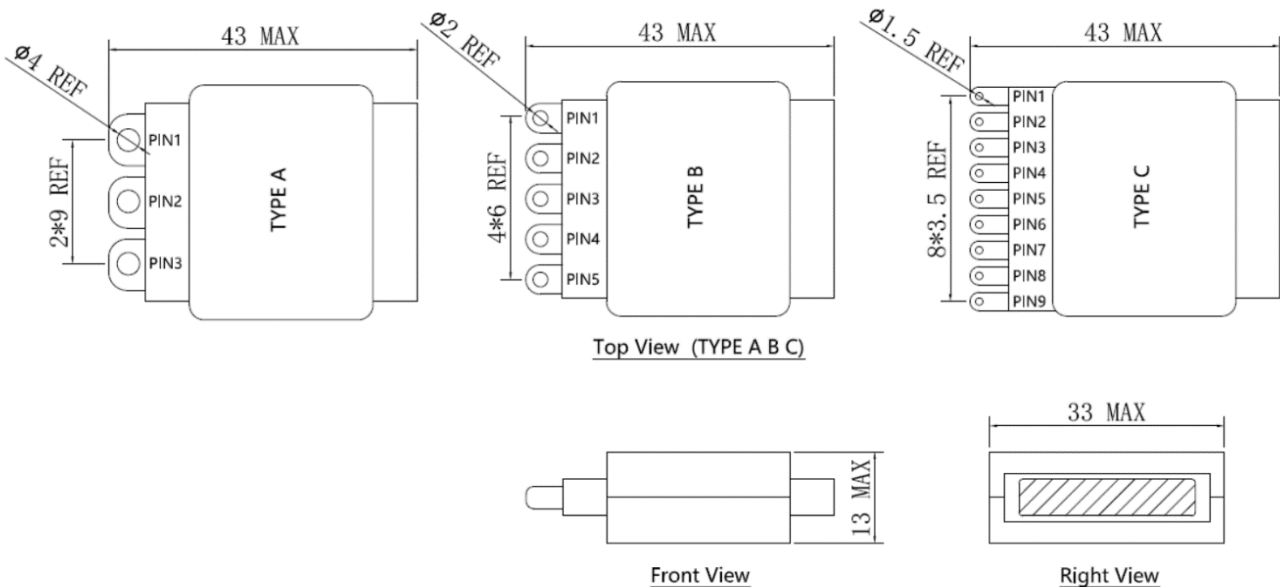
No.	Item	Material Description
1	Core	Ferrite
2	Wire	Copper
3	Solder (Lead Free)	SnAg3%Cu
4	Insulation	Polyimide+Polyamide-imide Resin

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

## Schematic Diagram



## Configurations and Dimensions (mm)

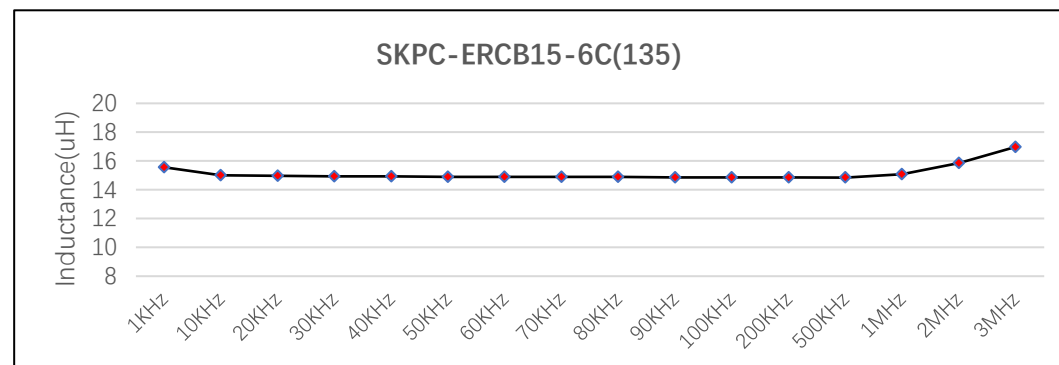
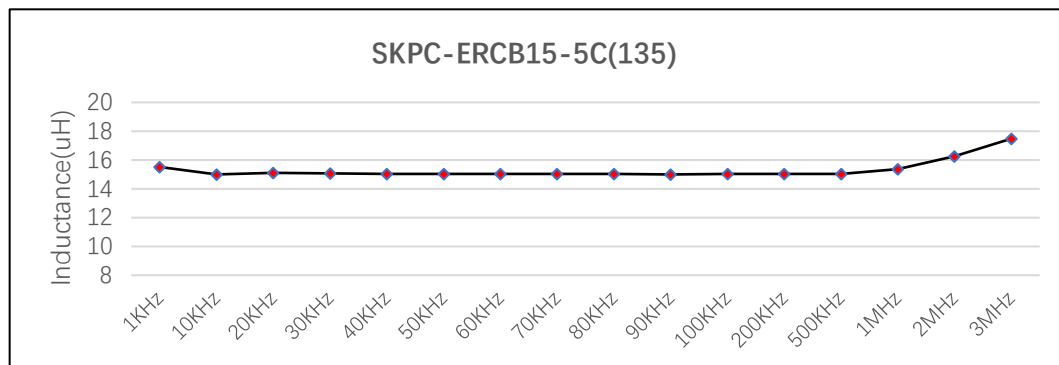
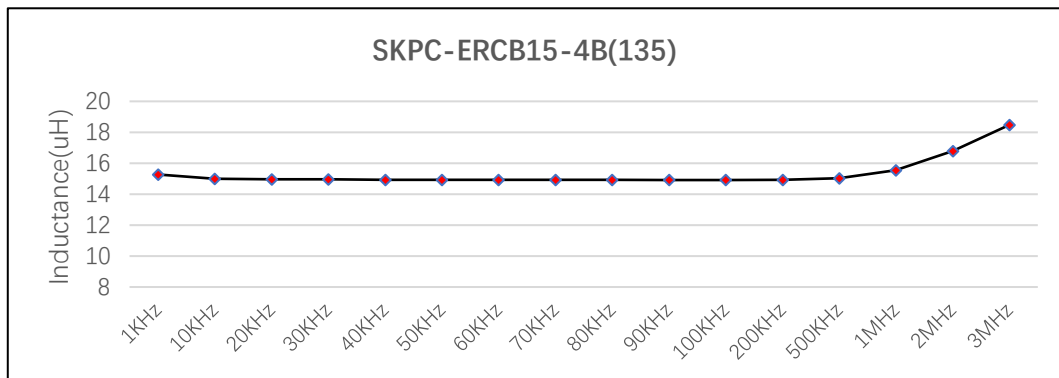


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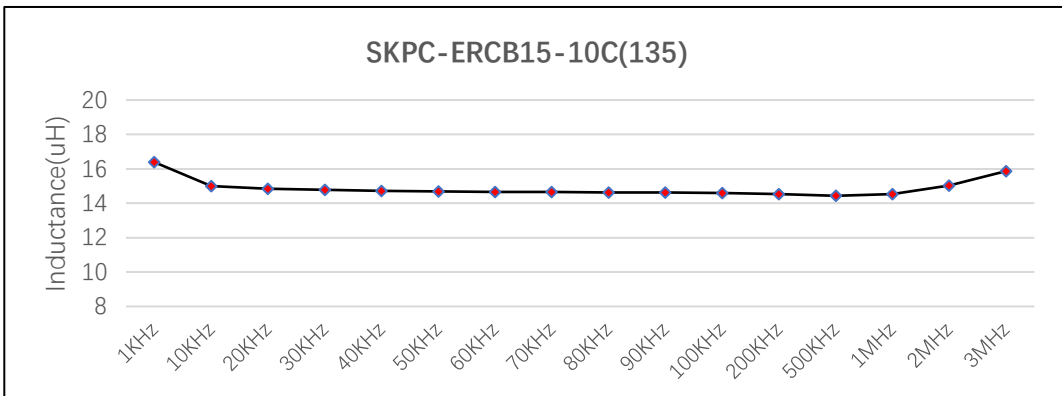
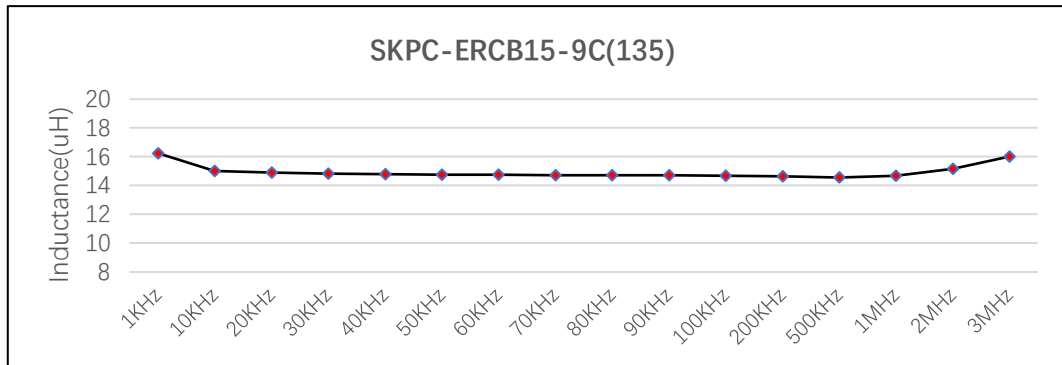
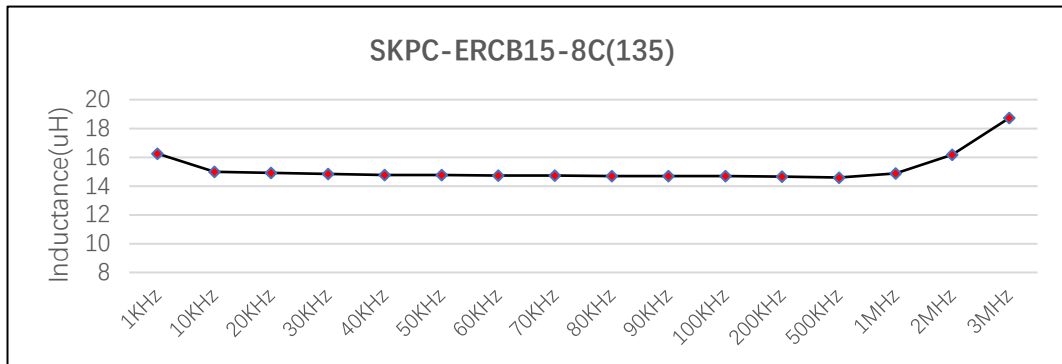
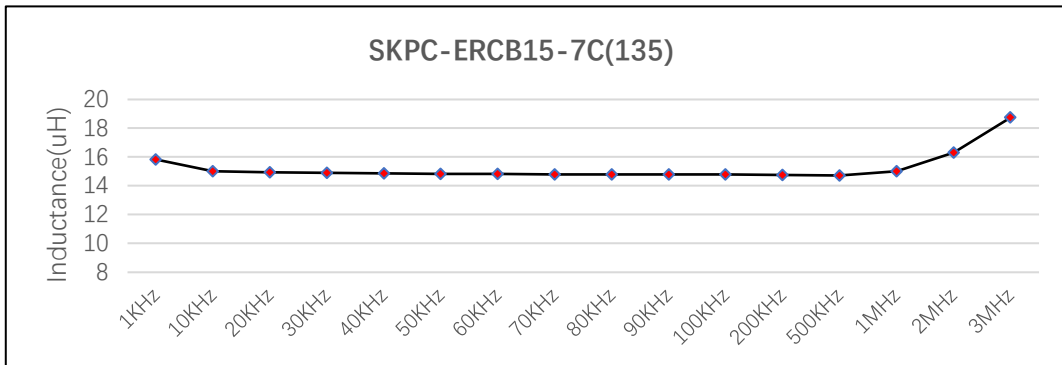


Model.	Type	Description of pins
SKPC-ERCB15-4B(135)	B	PIN1+PIN5
SKPC-ERCB15-5C(135)	C	PIN2+PIN7
SKPC-ERCB15-6C(135)	C	PIN2+PIN8
SKPC-ERCB15-7C(135)	C	PIN1+PIN8
SKPC-ERCB15-8C(135)	C	PIN1+PIN9
SKPC-ERCB15-9C(135)	C	PIN1+PIN8
SKPC-ERCB15-10C(135)	C	PIN1+PIN9
SKPC-ERCB15-11C(135)	C	PIN1+PIN8
SKPC-ERCB15-12C(135)	C	PIN1+PIN9

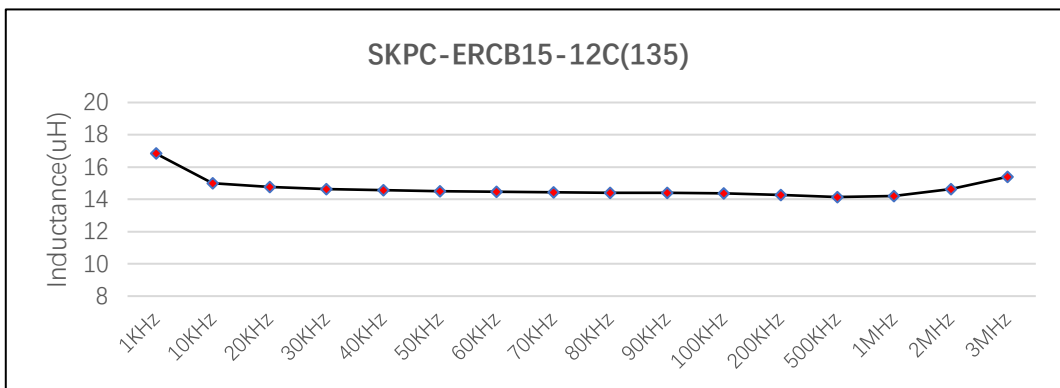
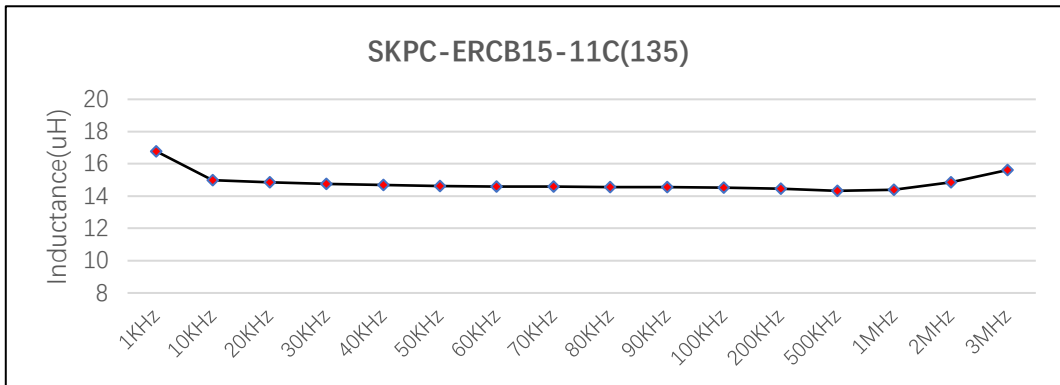
## L(uH) vs Frequency(KHz)



# Inductor

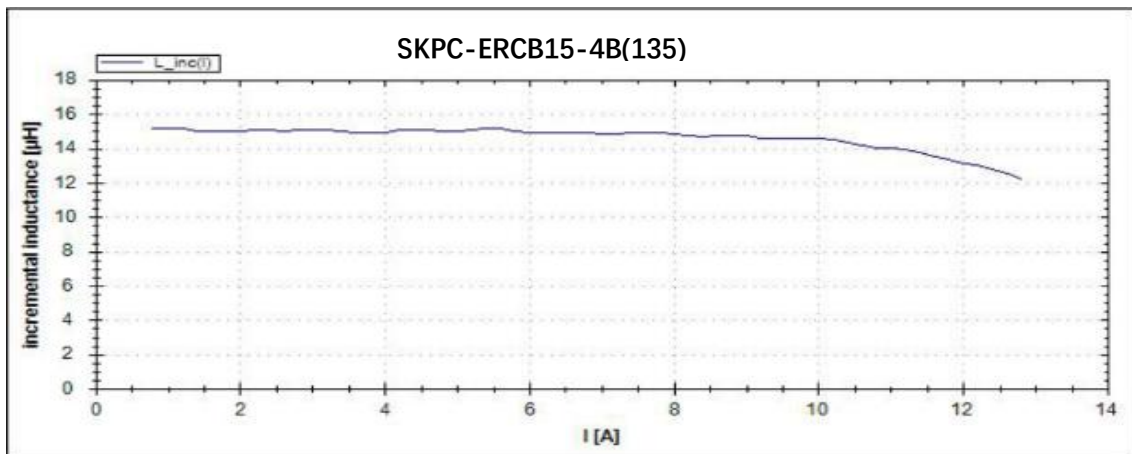


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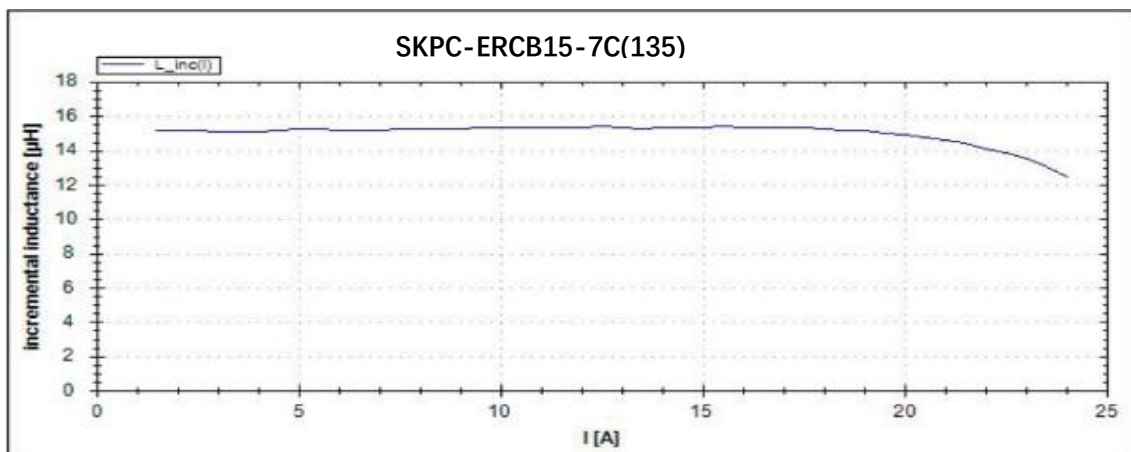
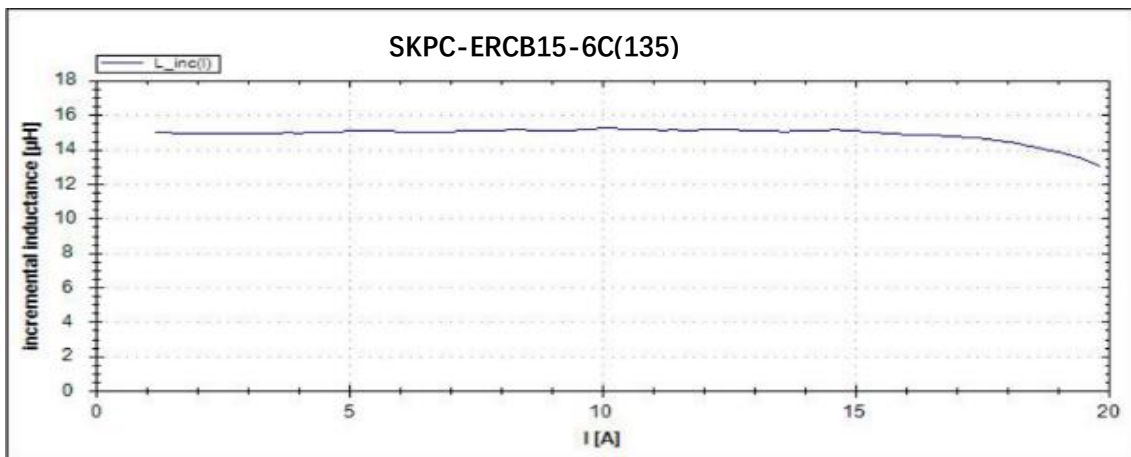
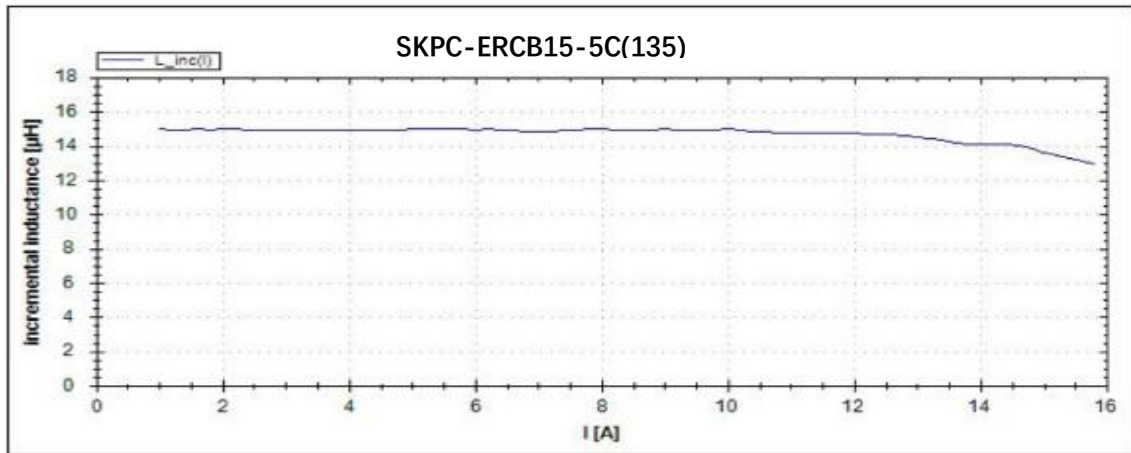


Note: This data is based on the WK-3260B.

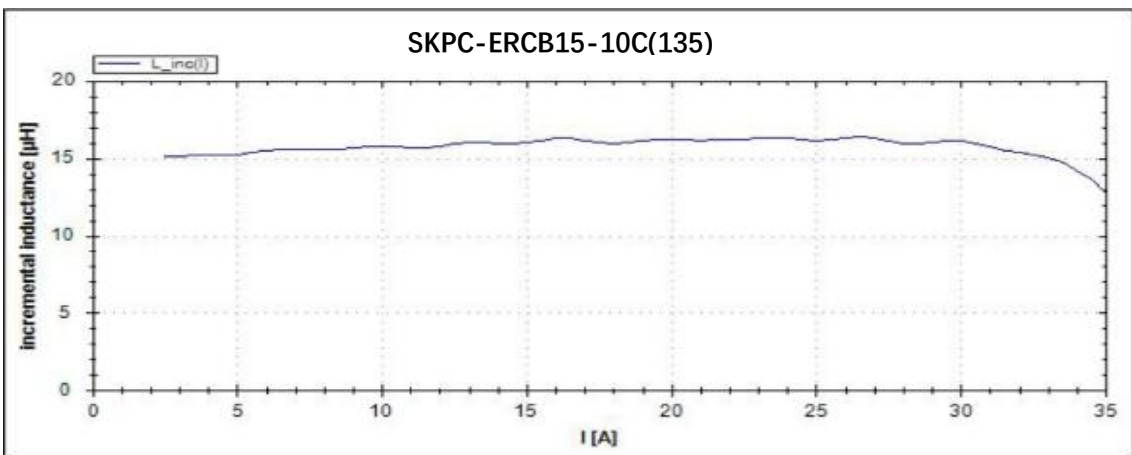
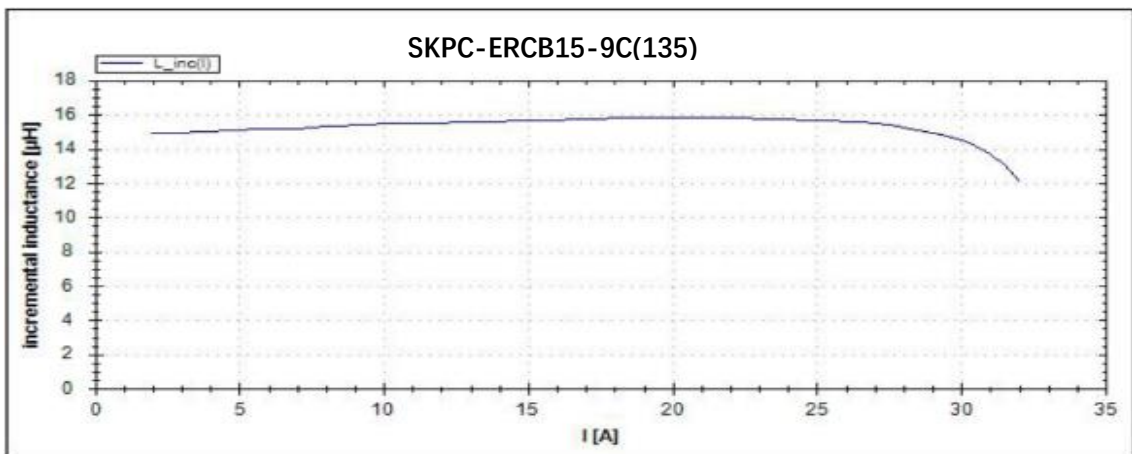
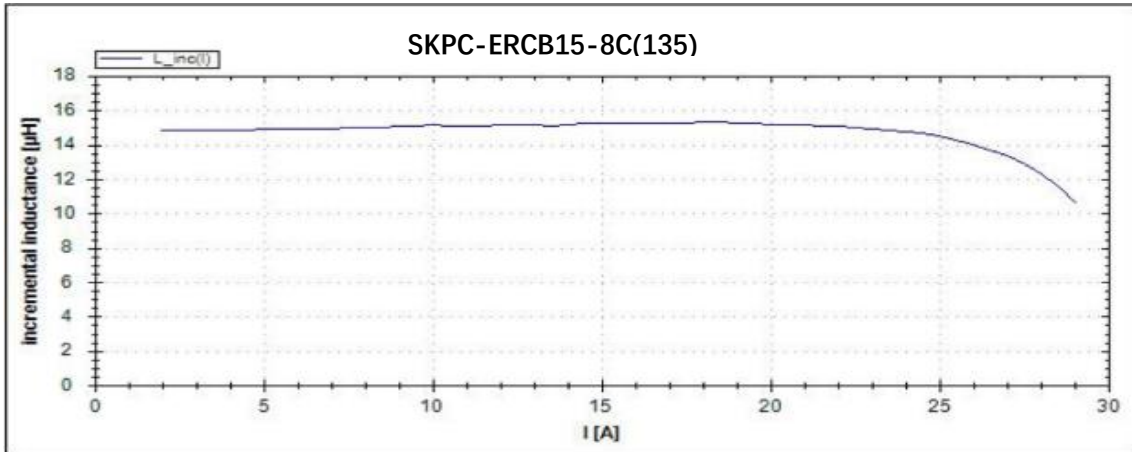
## L(uH) vs Current(A)



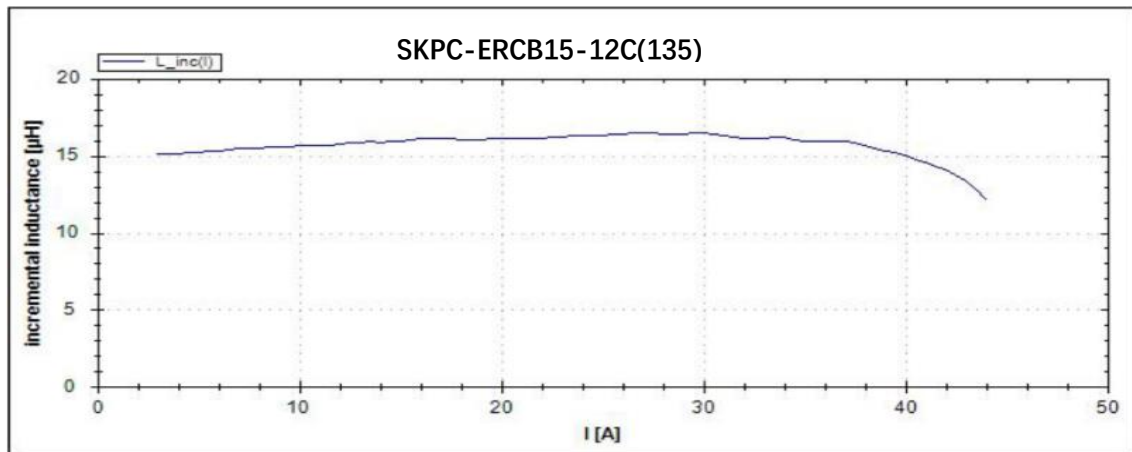
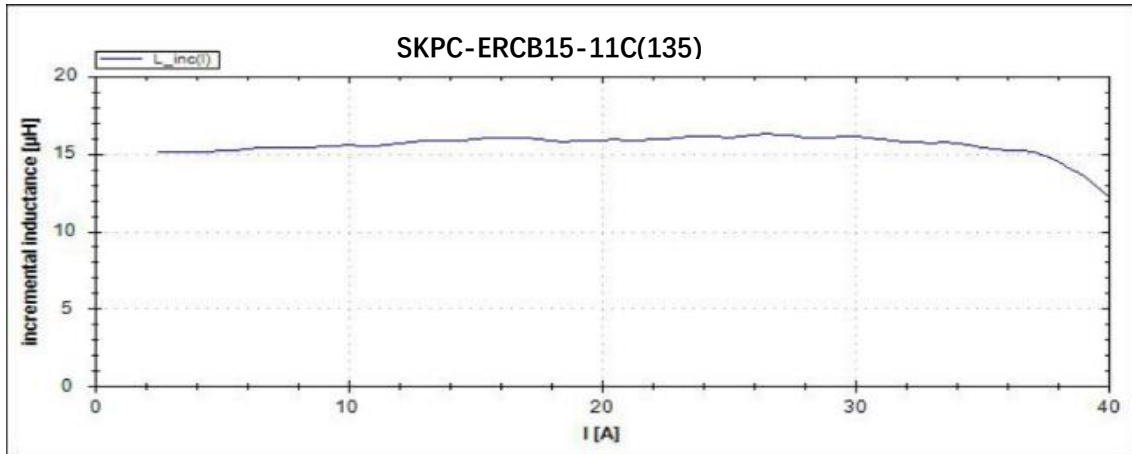
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Note: This data is based on the DPG10 Power Choke Tester.