

Inductor



Figure



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:

| <i>SERIES : SKPC-ERFD20-XXX</i> | |
|--|-----------------------------------|
| Test Conditions: | 25°C 10KHz 1V |
| Inductance : | 20μH±5% (No Current) |
| Dimensions(L*W*H): | 90*65*26mm |
| Pins and Connection | 2*Terminals |
| Hi-Pot(Wire to Core) | 1KV/3KV/5KV DC^① |

| Model | Type | DCR Max 20°C | Isat L drops 20% (Max) | Irms Temperature Rise 40°C (Max.) ^② | Weight (Max) |
|----------------------|-------------|-------------------------|---------------------------------------|---|-------------------------|
| SKPC-ERFD20-3B(135) | B | 2.5mΩ | 28A | 21A | 341g |
| SKPC-ERFD20-4B(135) | B | 1.7mΩ | 44A | 42A | 392g |
| SKPC-ERFD20-5C(135) | C | 1.0mΩ | 59A | 60A | 565g |
| SKPC-ERFD20-6C(135) | C | 1.5mΩ | 72A | 48A | 555g |
| SKPC-ERFD20-7C(135) | C | 2.2mΩ | 86A | 36A | 524g |
| SKPC-ERFD20-8C(135) | C | 2.6mΩ | 100A | 36A | 555g |
| SKPC-ERFD20-9C(135) | C | 4.7mΩ | 115A | 24A | 494g |
| SKPC-ERFD20-10C(135) | C | 5.1mΩ | 128A | 24A | 494g |
| SKPC-ERFD20-11C(135) | C | 5.7mΩ | 143A | 24A | 494g |

Operating temperature: -40°C to +75°C

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Note:

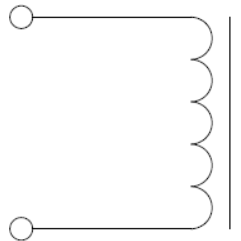
1. Classification of different Hi-Pot level : **1-1KVDC/3-3KVDC/5-5KVDC**
2. Since different ways of heat dissipation affect Temperature rise, Temperature rise is reference.

Material List

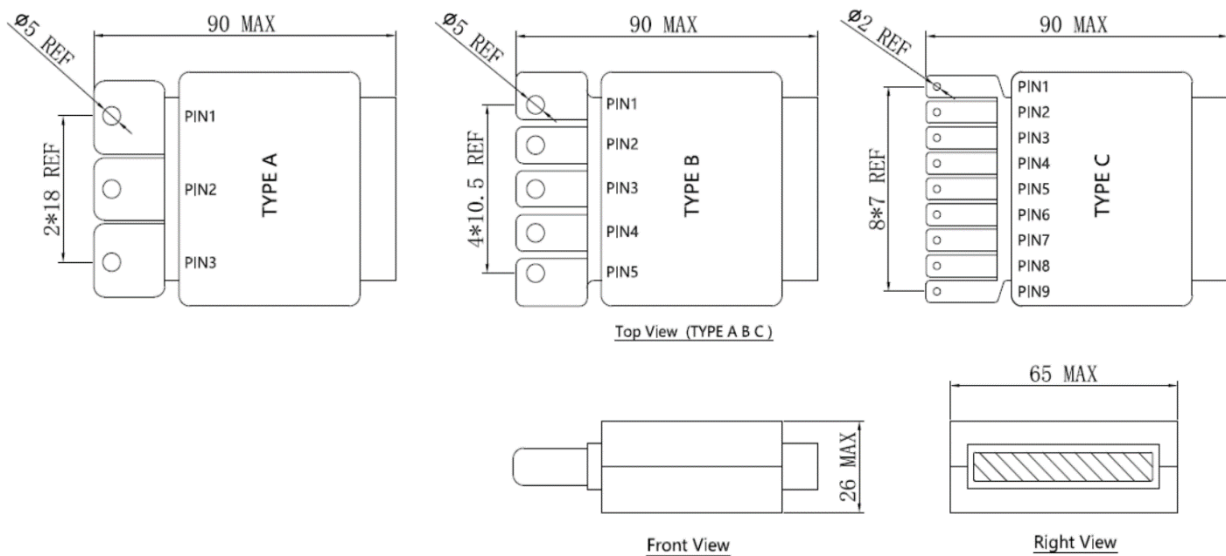
| No. | Item | Material Description |
|-----|--------------------|---------------------------------|
| 1 | Core | Ferrite |
| 2 | Wire | Copper |
| 3 | Solder (Lead Free) | SnAg3%Cu |
| 4 | Insulation | Polyimide+Polyamide-imide Resin |

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

Schematic Diagram



Configurations and Dimensions (mm)

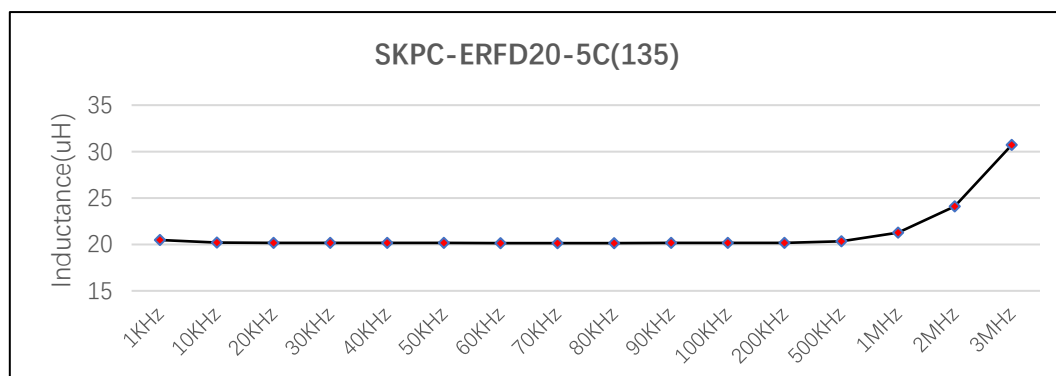
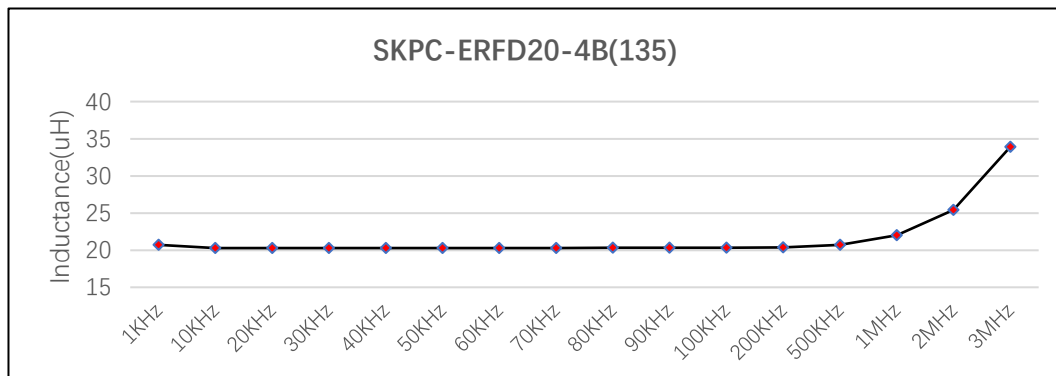
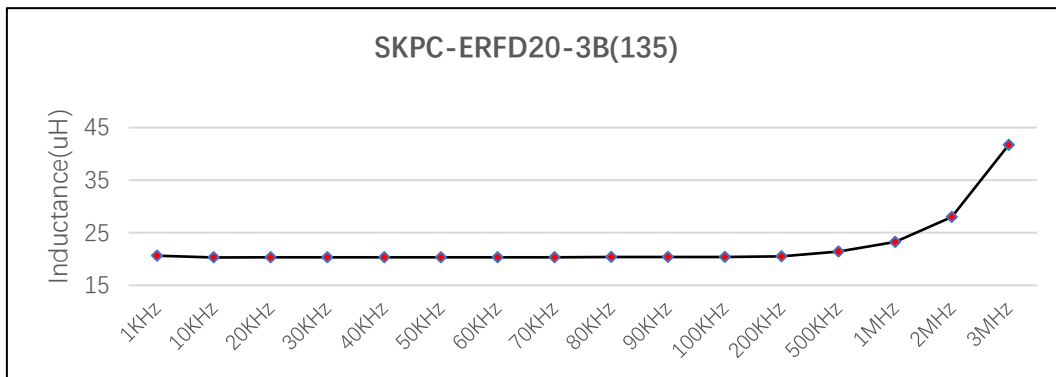


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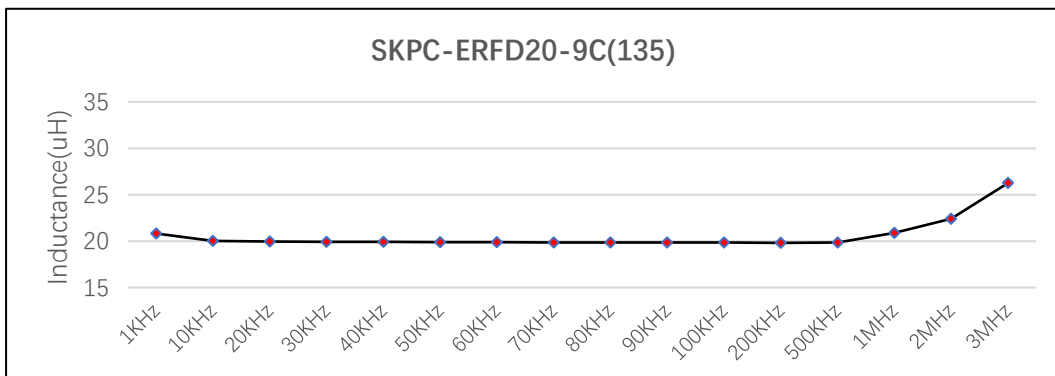
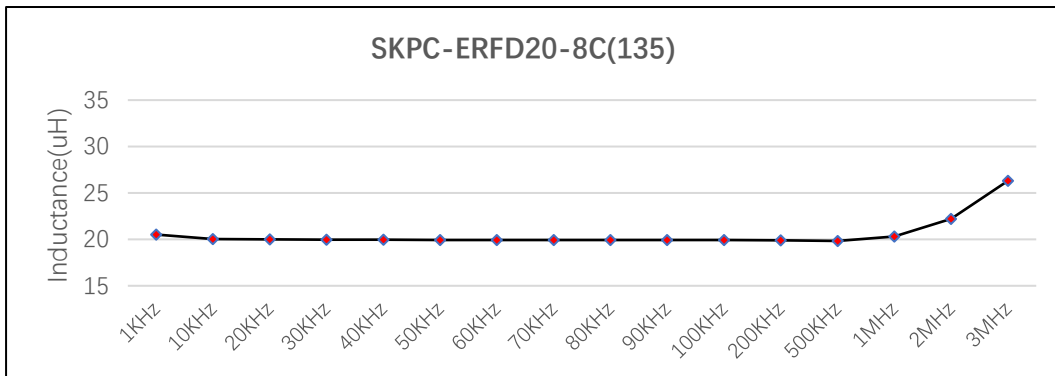
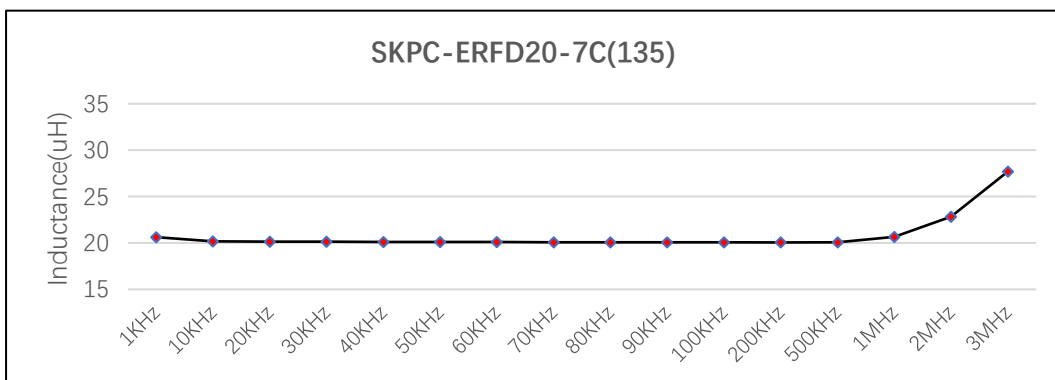
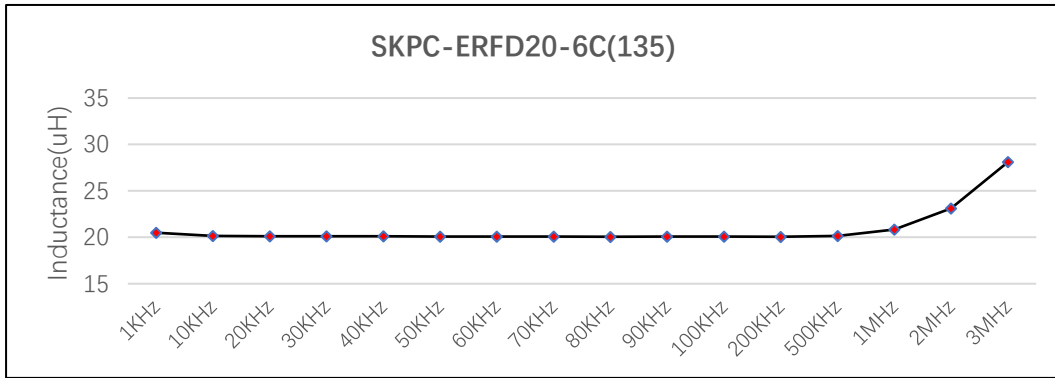


| Model. | Type | Description of pins |
|----------------------|------|---------------------|
| SKPC-ERFD20-3B(135) | B | PIN1+PIN4 |
| SKPC-ERFD20-4B(135) | B | PIN1+PIN5 |
| SKPC-ERFD20-5C(135) | C | PIN2+PIN7 |
| SKPC-ERFD20-6C(135) | C | PIN2+PIN8 |
| SKPC-ERFD20-7C(135) | C | PIN1+PIN8 |
| SKPC-ERFD20-8C(135) | C | PIN1+PIN9 |
| SKPC-ERFD20-9C(135) | C | PIN1+PIN8 |
| SKPC-ERFD20-10C(135) | C | PIN1+PIN9 |
| SKPC-ERFD20-11C(135) | C | PIN1+PIN8 |

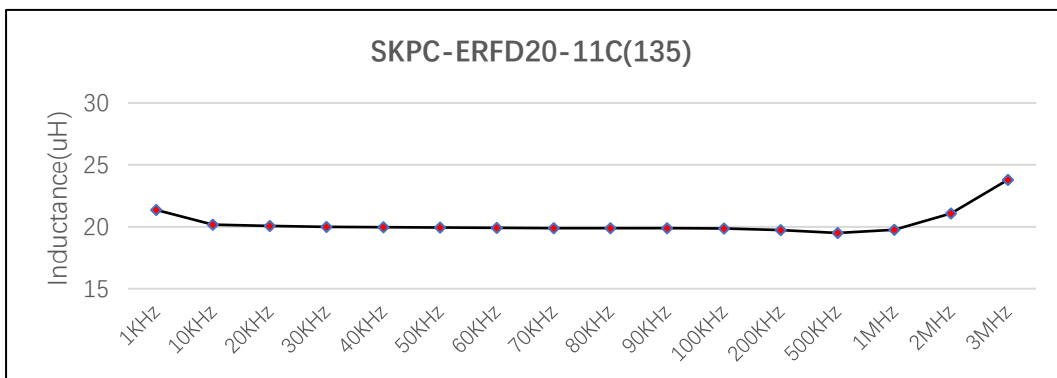
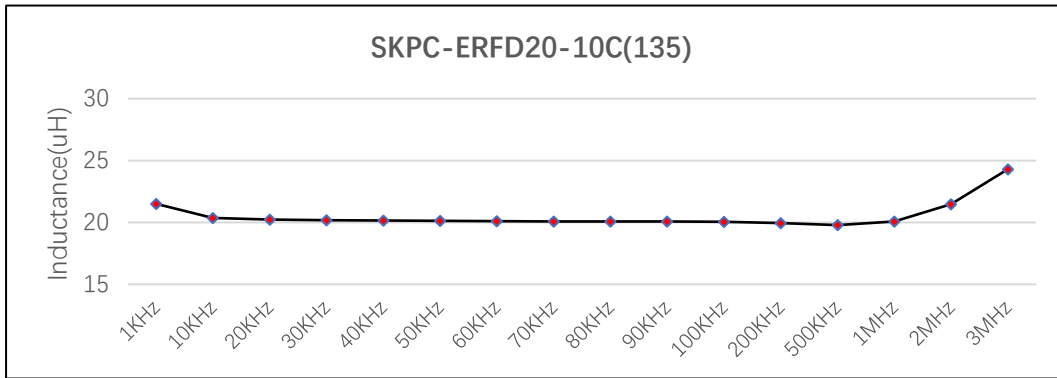
L(uH) vs Frequency(KHz)



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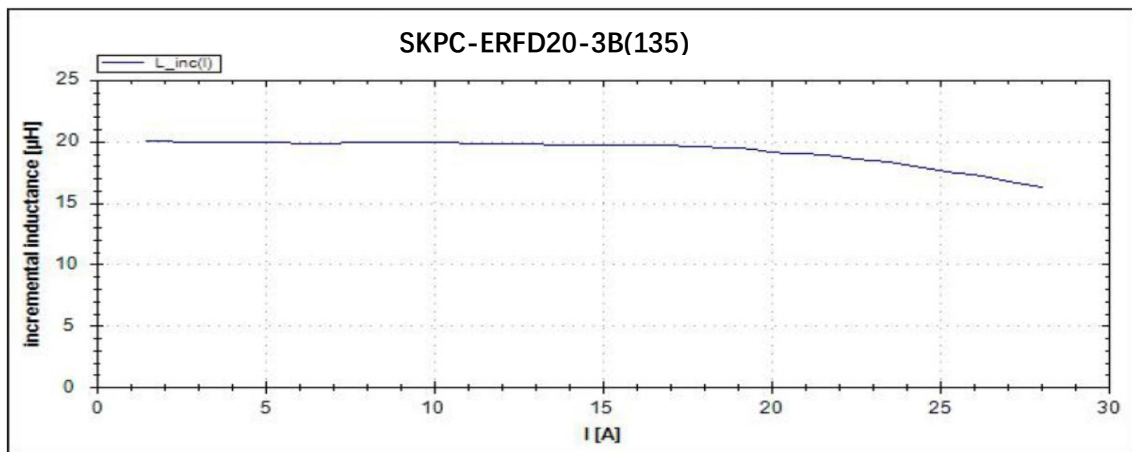


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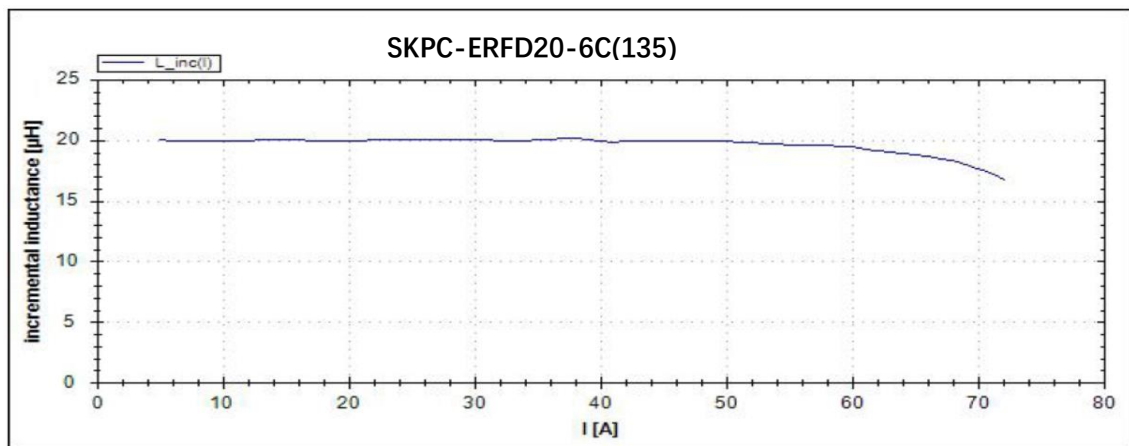
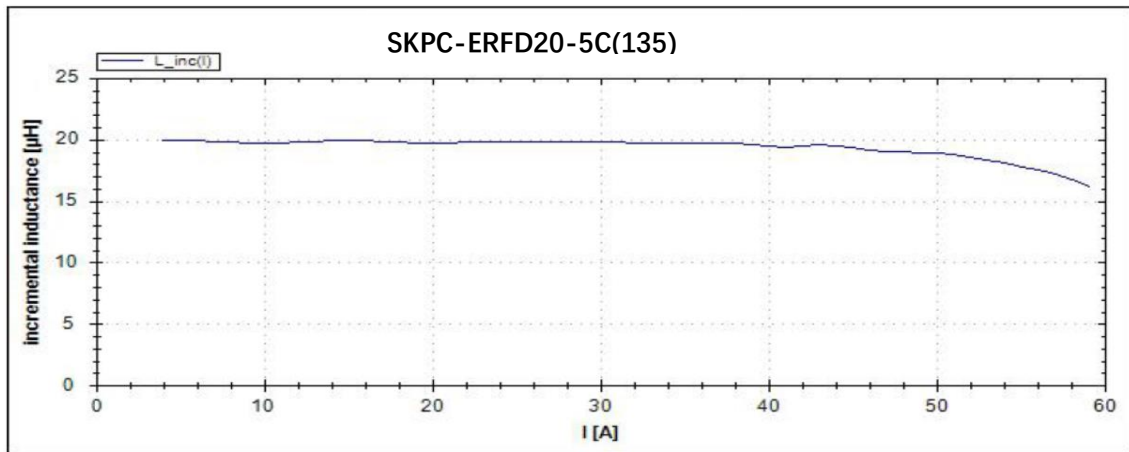
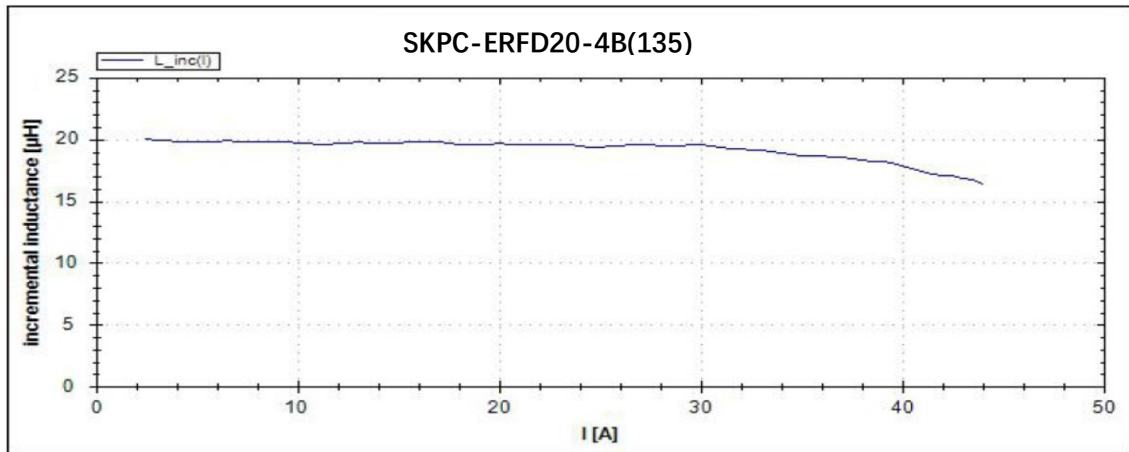


Note: This data is based on the WK-3260B.

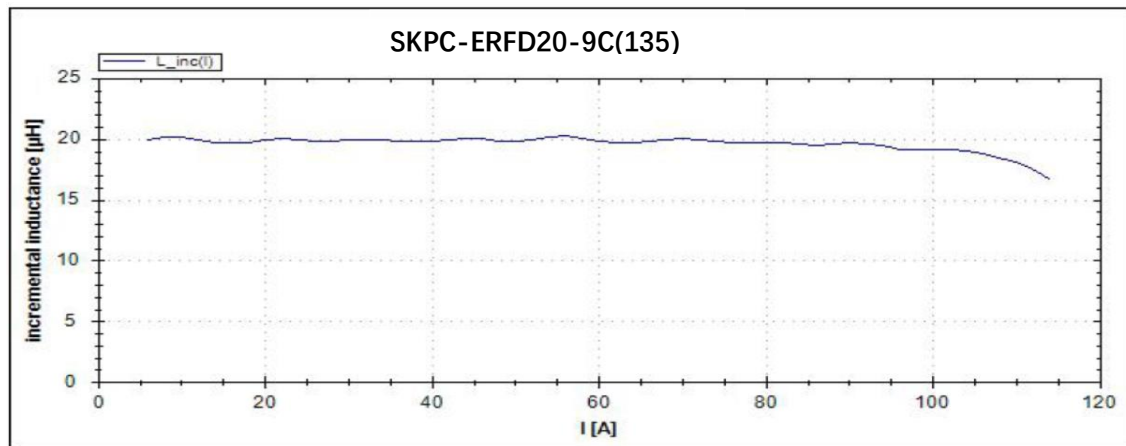
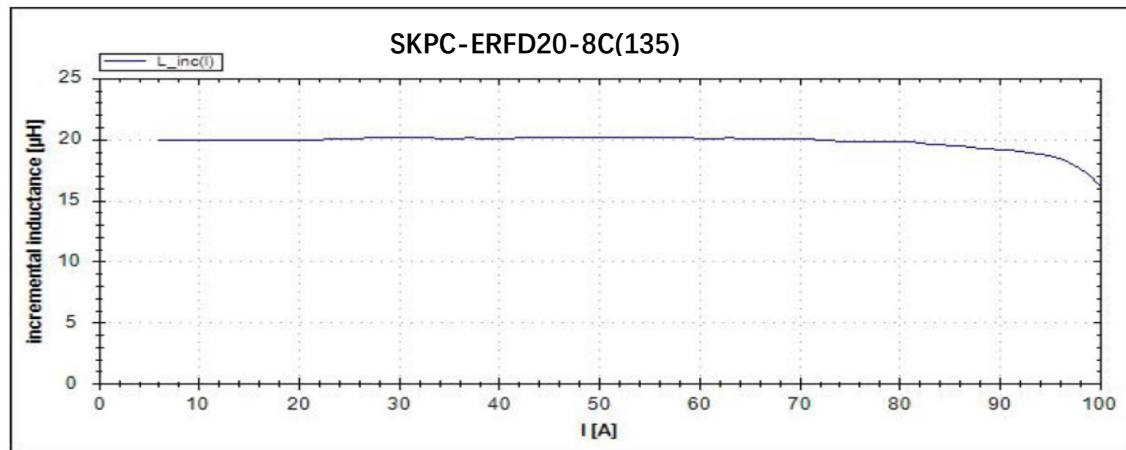
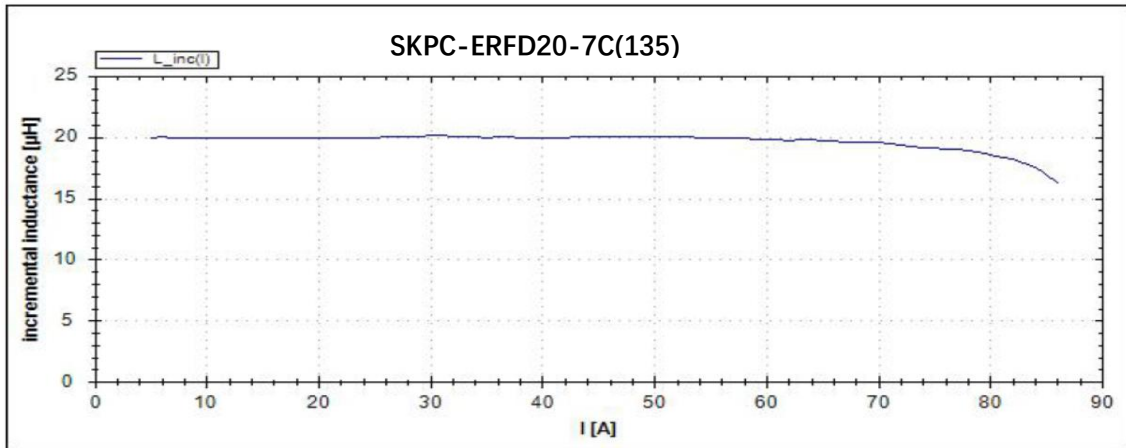
L(uH) vs Current(A)



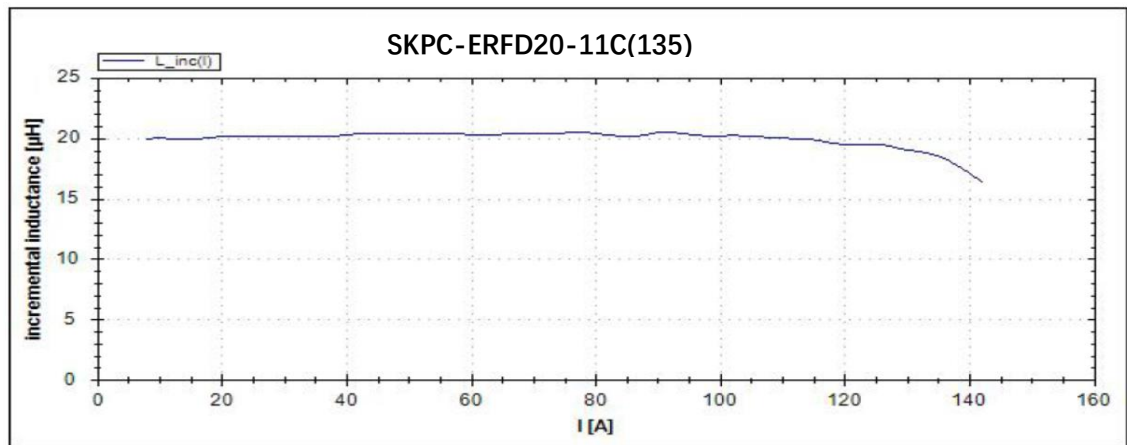
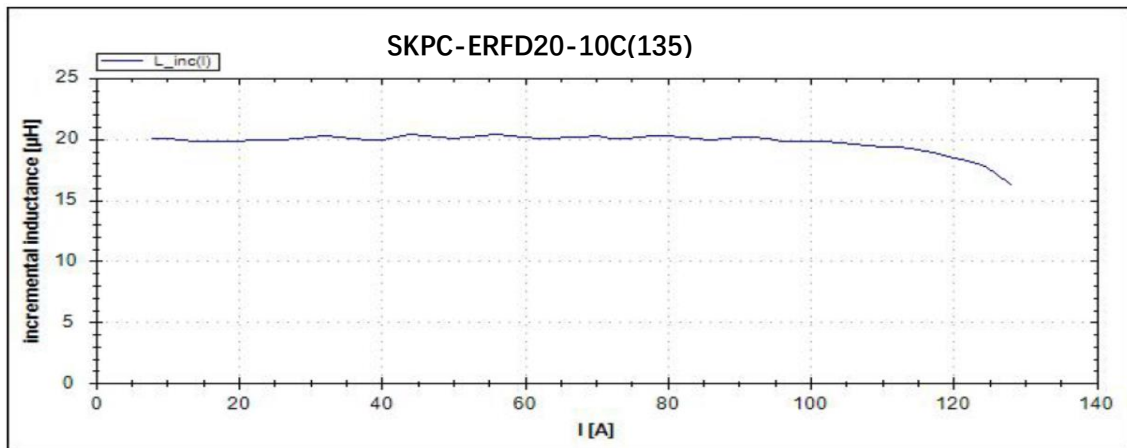
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Note: This data is based on the DPG10 Power Choke Tester.