

## CER8065B



### ■ Features

- Cost competitive shielded type inductor
- SMD magnetic shielded type of power inductor
- Suitable for power supply choke coil
- High current, Low resistance
- Operating temperature : -40°C~+125°C(The self-heating is included)

Magnetic structure :

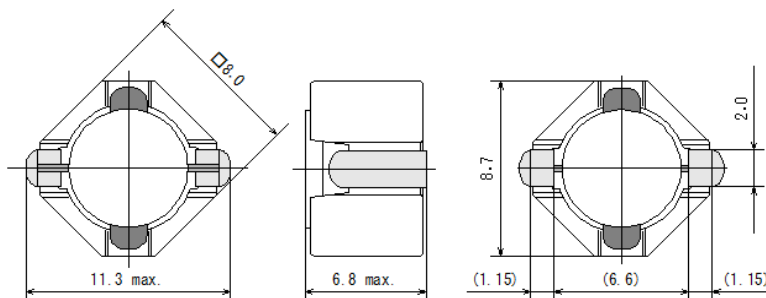


Weight : 1.4 g

### ■ Applications

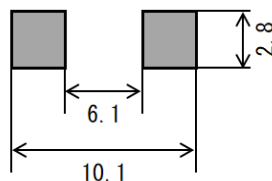
- Audio Visual/TV and Monitor, Mini System, AV Amplifier, for Professionals, Camera, Recorder
- Automotive/LED Headlights
- Computer & Peripheral Device/Computer, Printer(MFP), Industrial Machines
- Home Electronics/LED Lights
- Others/Energy, Power Supply, Transceivers, FA, Medical

### ■ Dimensions



(Unit : mm)

### ■ Recommended Land Pattern



(Unit : mm)



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## ■ Specifications

| SAGAMI Part No. | Inductance<br>( $\mu$ H) | DCR<br>( $\Omega$ )<br>$\pm 30\%$ | DC Saturation<br>Allowable Current<br>(A) |       | Temperature Rise<br>Allowable Current<br>(A) |       |
|-----------------|--------------------------|-----------------------------------|-------------------------------------------|-------|----------------------------------------------|-------|
|                 |                          |                                   | Typical                                   | Spec  | Typical                                      | Spec  |
| CER8065B-1R2N   | 1.2 $\pm 30\%$           | 0.00700                           | 15.4                                      | 11.6  | 7.45                                         | 5.70  |
| CER8065B-1R8N   | 1.8 $\pm 30\%$           | 0.00800                           | 12.3                                      | 9.30  | 6.80                                         | 5.20  |
| CER8065B-2R4N   | 2.4 $\pm 30\%$           | 0.00900                           | 10.2                                      | 7.80  | 6.35                                         | 4.70  |
| CER8065B-3R0N   | 3 $\pm 30\%$             | 0.0100                            | 9.35                                      | 7.10  | 5.90                                         | 4.45  |
| CER8065B-3R9N   | 3.9 $\pm 30\%$           | 0.0130                            | 7.85                                      | 5.90  | 5.30                                         | 4.00  |
| CER8065B-5R1N   | 5.1 $\pm 30\%$           | 0.0140                            | 7.00                                      | 5.15  | 5.00                                         | 3.80  |
| CER8065B-6R2N   | 6.2 $\pm 30\%$           | 0.0170                            | 6.45                                      | 4.80  | 4.60                                         | 3.55  |
| CER8065B-7R5N   | 7.5 $\pm 30\%$           | 0.0190                            | 6.25                                      | 4.60  | 4.35                                         | 3.25  |
| CER8065B-8R2N   | 8.2 $\pm 30\%$           | 0.0210                            | 5.55                                      | 4.10  | 4.20                                         | 3.10  |
| CER8065B-100M   | 10 $\pm 20\%$            | 0.0250                            | 5.10                                      | 3.90  | 3.80                                         | 2.80  |
| CER8065B-120M   | 12 $\pm 20\%$            | 0.0270                            | 4.85                                      | 3.60  | 3.65                                         | 2.70  |
| CER8065B-150M   | 15 $\pm 20\%$            | 0.0340                            | 4.30                                      | 3.10  | 3.25                                         | 2.40  |
| CER8065B-180M   | 18 $\pm 20\%$            | 0.0440                            | 3.85                                      | 2.80  | 2.85                                         | 2.10  |
| CER8065B-220M   | 22 $\pm 20\%$            | 0.0510                            | 3.65                                      | 2.60  | 2.65                                         | 1.95  |
| CER8065B-270M   | 27 $\pm 20\%$            | 0.0700                            | 3.10                                      | 2.25  | 2.25                                         | 1.65  |
| CER8065B-330M   | 33 $\pm 20\%$            | 0.0850                            | 2.90                                      | 2.05  | 2.05                                         | 1.50  |
| CER8065B-390M   | 39 $\pm 20\%$            | 0.100                             | 2.60                                      | 1.95  | 1.85                                         | 1.35  |
| CER8065B-470M   | 47 $\pm 20\%$            | 0.120                             | 2.30                                      | 1.70  | 1.70                                         | 1.25  |
| CER8065B-560M   | 56 $\pm 20\%$            | 0.150                             | 2.20                                      | 1.55  | 1.55                                         | 1.10  |
| CER8065B-680M   | 68 $\pm 20\%$            | 0.180                             | 2.00                                      | 1.45  | 1.40                                         | 1.05  |
| CER8065B-820M   | 82 $\pm 20\%$            | 0.190                             | 1.80                                      | 1.30  | 1.35                                         | 0.980 |
| CER8065B-101M   | 100 $\pm 20\%$           | 0.240                             | 1.65                                      | 1.20  | 1.20                                         | 0.890 |
| CER8065B-121M   | 120 $\pm 20\%$           | 0.280                             | 1.55                                      | 1.10  | 1.10                                         | 0.810 |
| CER8065B-151M   | 150 $\pm 20\%$           | 0.350                             | 1.35                                      | 1.00  | 1.00                                         | 0.720 |
| CER8065B-181M   | 180 $\pm 20\%$           | 0.420                             | 1.25                                      | 0.930 | 0.930                                        | 0.660 |
| CER8065B-221M   | 220 $\pm 20\%$           | 0.510                             | 1.10                                      | 0.820 | 0.840                                        | 0.600 |
| CER8065B-271M   | 270 $\pm 20\%$           | 0.610                             | 1.00                                      | 0.750 | 0.760                                        | 0.540 |
| CER8065B-331M   | 330 $\pm 20\%$           | 0.770                             | 0.930                                     | 0.680 | 0.680                                        | 0.480 |
| CER8065B-391M   | 390 $\pm 20\%$           | 0.930                             | 0.850                                     | 0.630 | 0.620                                        | 0.440 |
| CER8065B-471M   | 470 $\pm 20\%$           | 1.13                              | 0.780                                     | 0.570 | 0.560                                        | 0.400 |
| CER8065B-561M   | 560 $\pm 20\%$           | 1.24                              | 0.710                                     | 0.530 | 0.540                                        | 0.380 |
| CER8065B-681M   | 680 $\pm 20\%$           | 1.55                              | 0.640                                     | 0.480 | 0.480                                        | 0.340 |
| CER8065B-821M   | 820 $\pm 20\%$           | 1.95                              | 0.580                                     | 0.430 | 0.430                                        | 0.300 |
| CER8065B-102M   | 1000 $\pm 20\%$          | 2.17                              | 0.530                                     | 0.380 | 0.410                                        | 0.280 |

Inductance Measuring Condition:100kHz,1V

DC saturation allowable current:The current value which inductance decrease within 30% from the initial value

Temperature rise allowable current:The rise in temperature of core surface is within 40°C



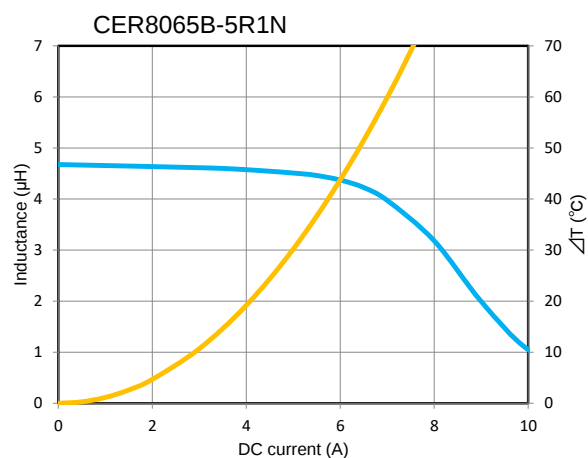
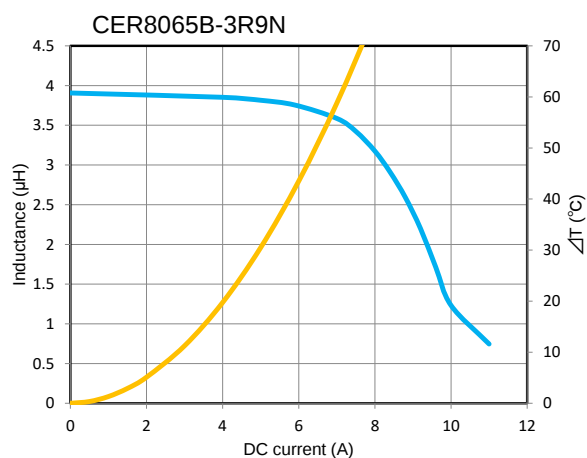
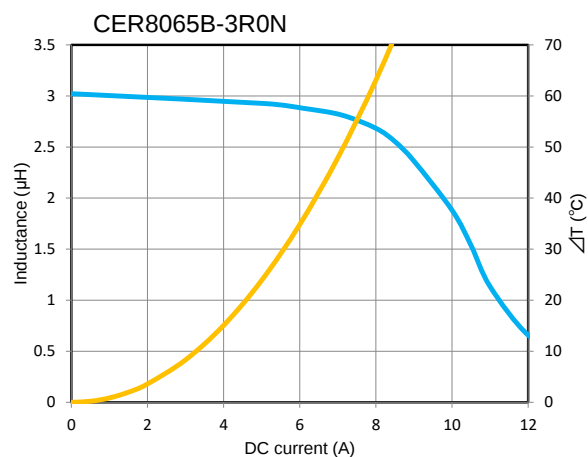
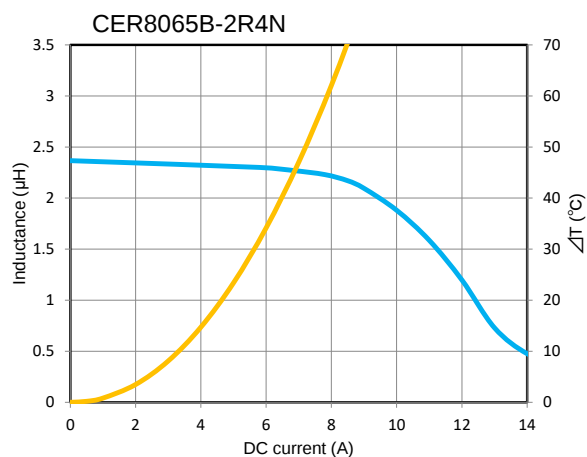
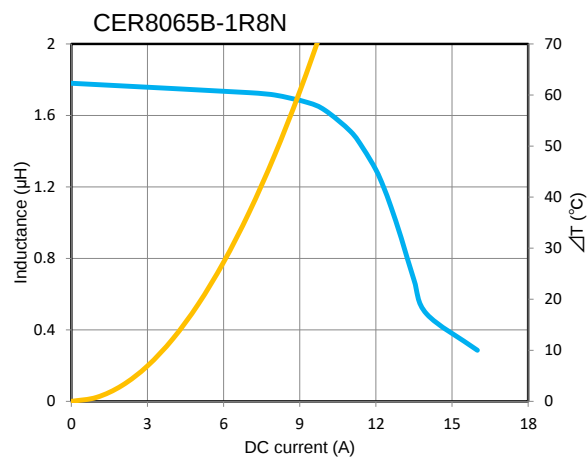
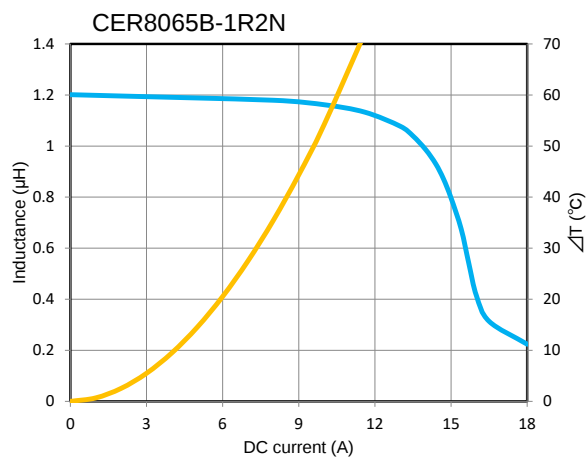
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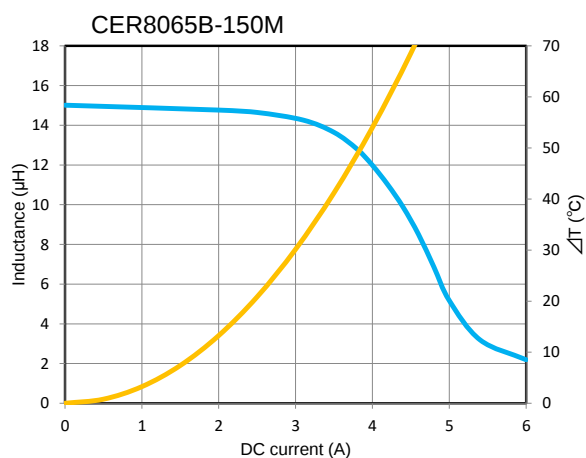
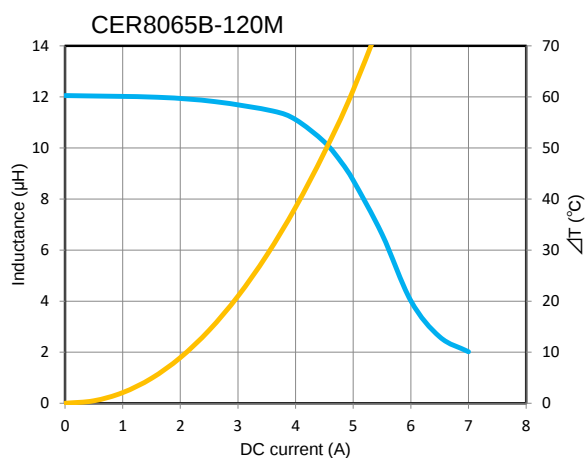
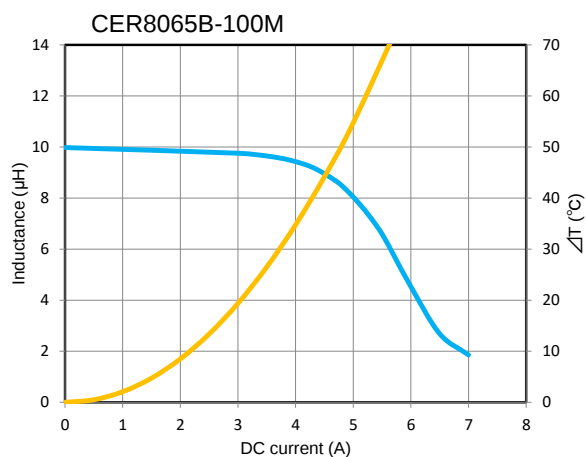
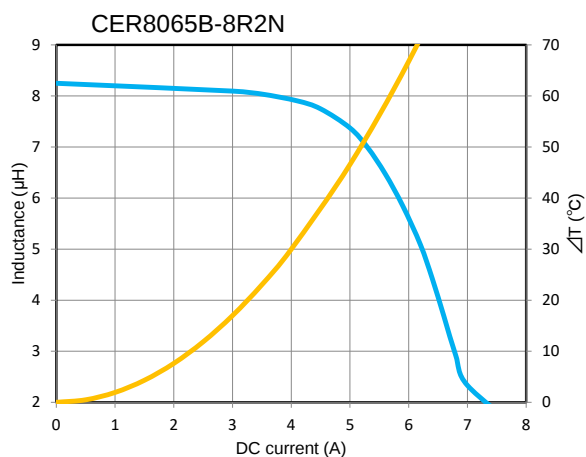
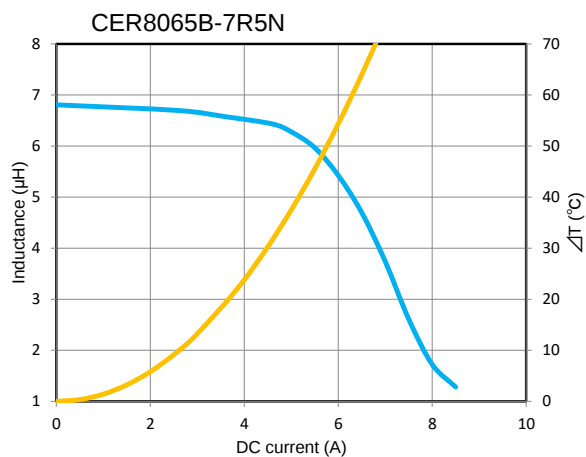
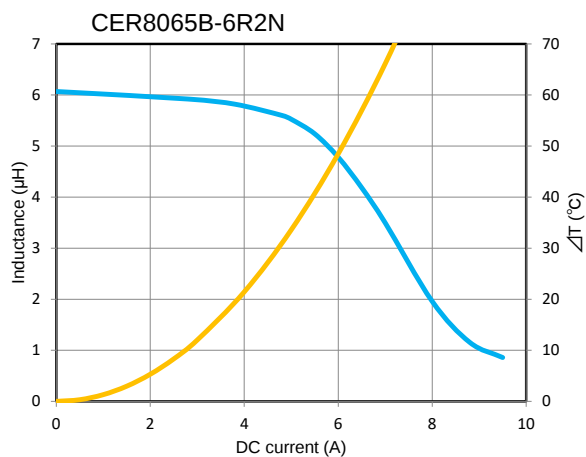
# DC bias characteristics vs Temperature Rise Graph

■ L(25°C)      ■  $\Delta T$



# DC bias characteristics vs Temperature Rise Graph

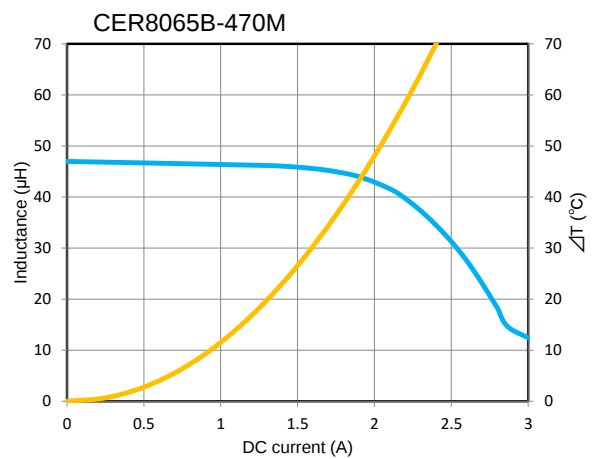
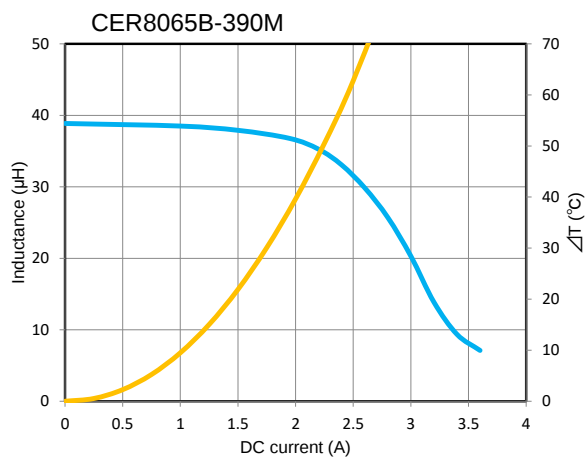
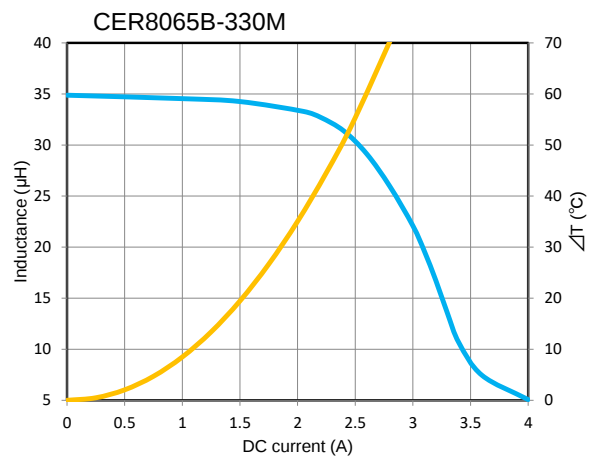
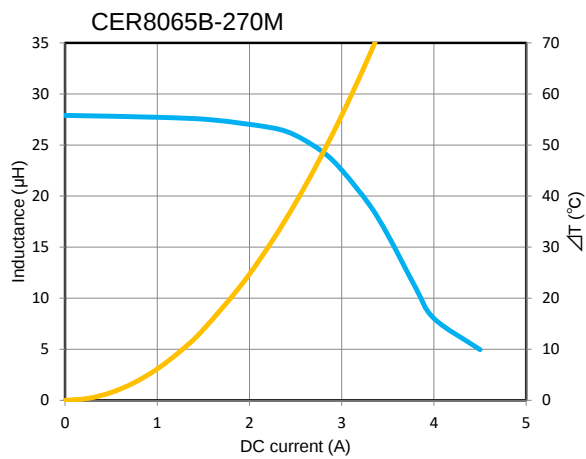
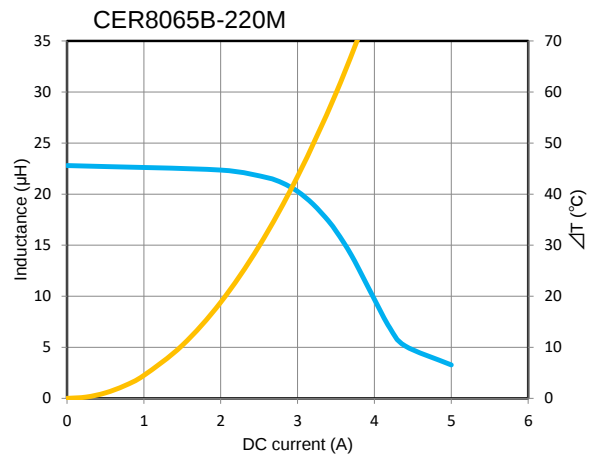
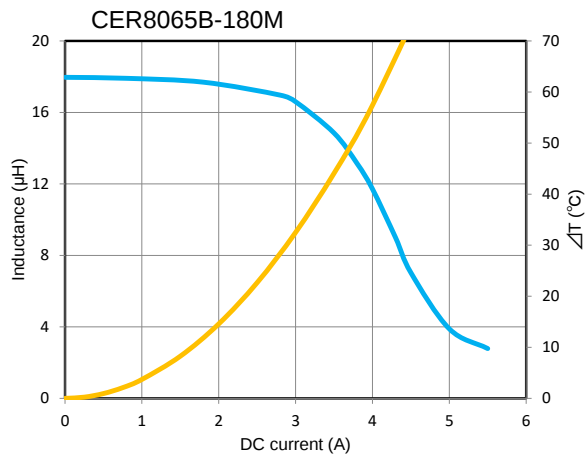
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■  $L(25^{\circ}\text{C})$ 
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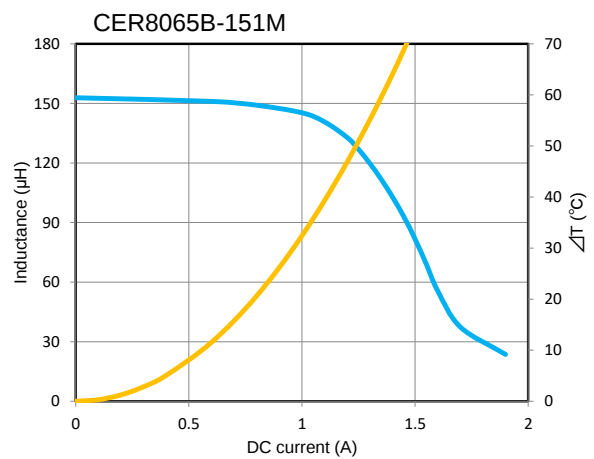
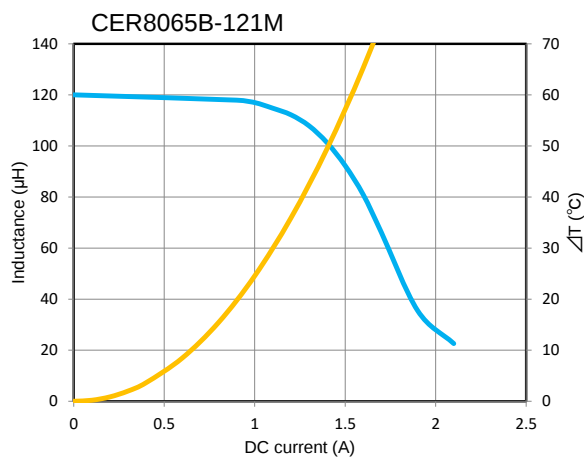
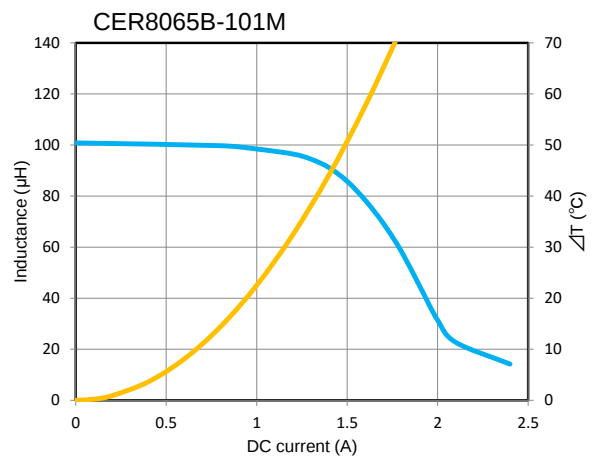
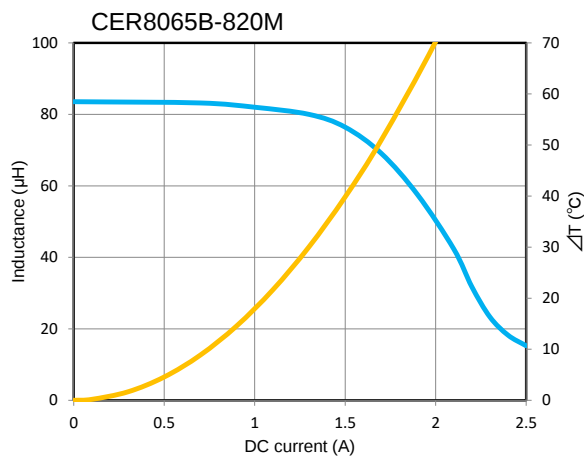
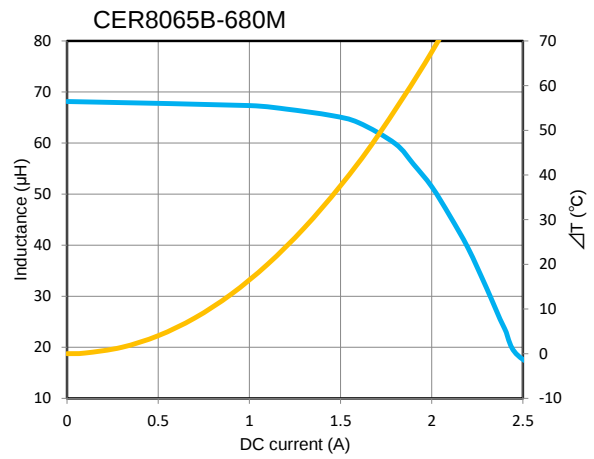
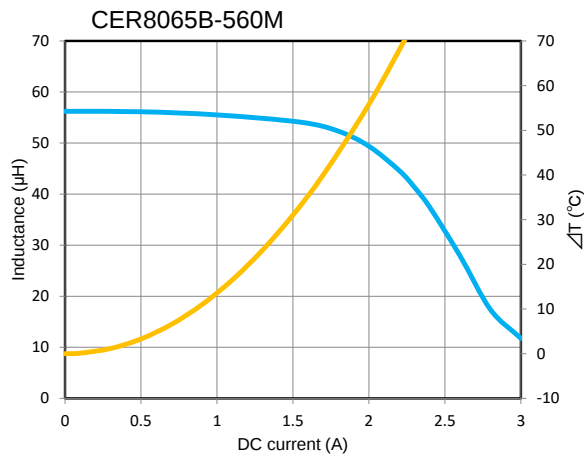
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L(25°C)



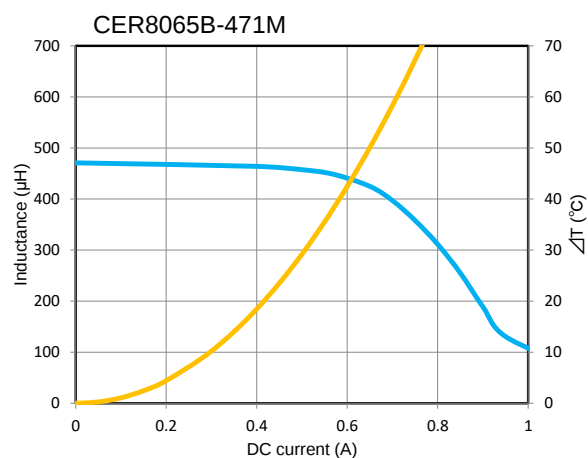
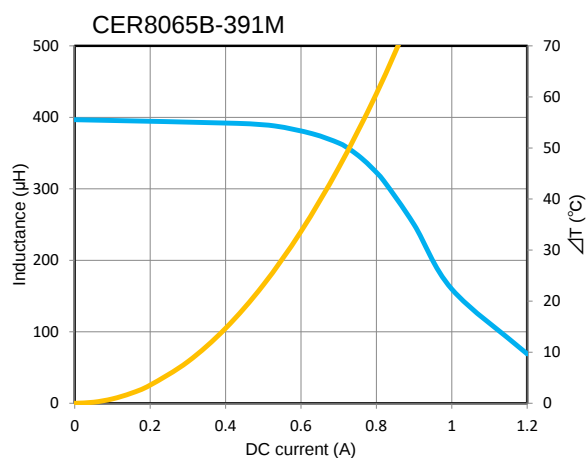
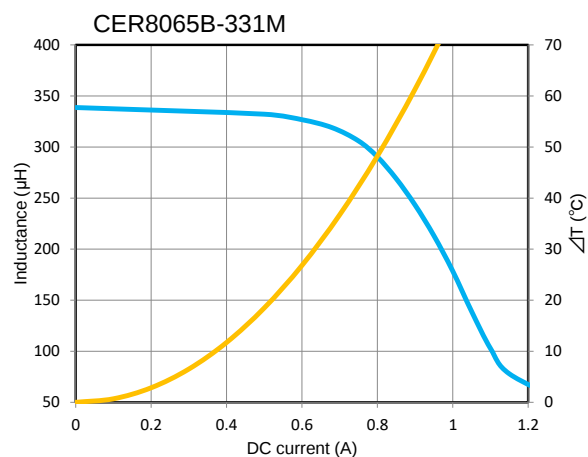
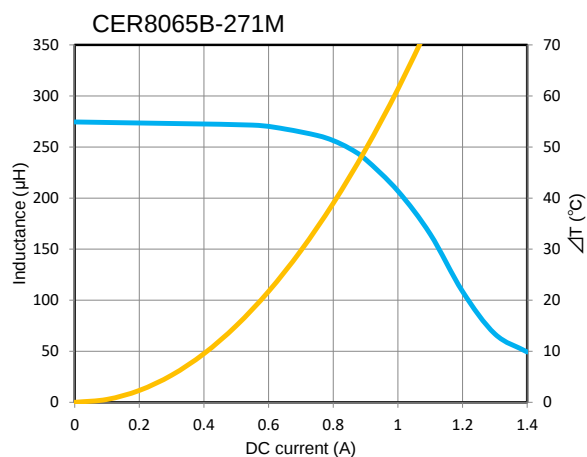
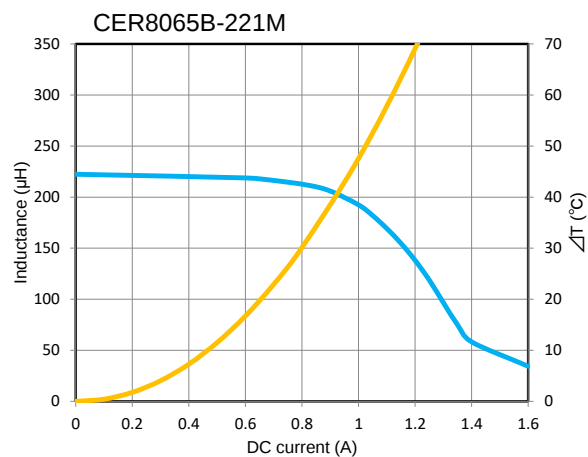
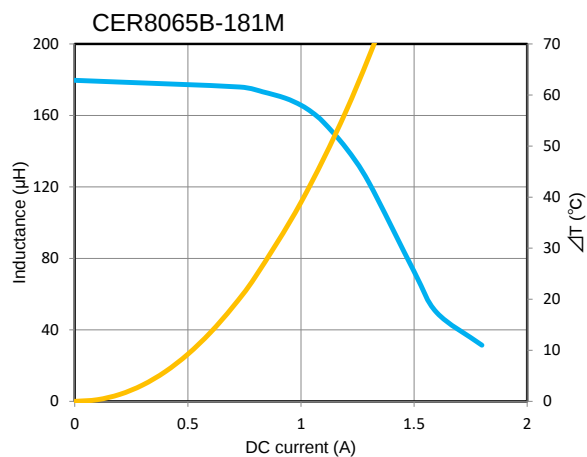
$\Delta T$



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