

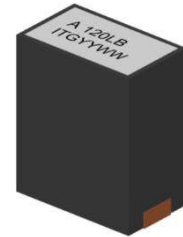


# SLA40476B Series



## 1. Features of SLA40476B Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 580.0nH, Custom values are welcomed.
- High current output chokes, up to 170.0 Amp with approx. 20% roll off.
- Low Profile 12.00 mm Max. height .
- Foot Print 10.00 x 6.00 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qty: 300 pcs , 13" Reel ;

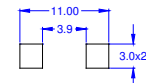
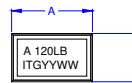


## 2. Electrical Characteristic of SLA40476B Series:

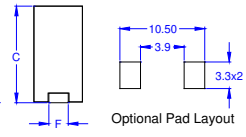
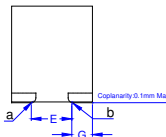
| ITG Part Number | OCL <sup>1</sup><br>(nH)<br>± 15% | L @ Isat1 <sup>2</sup><br>(nH)<br>Min. | DCR <sup>3</sup><br>(mΩ)<br>± 10% | Isat1 <sup>4</sup><br>(A)<br>@25°C | Isat2 <sup>4</sup><br>(A)<br>@75°C | Isat3 <sup>4</sup><br>(A)<br>@100°C | Irms <sup>5</sup><br>(A)<br>@25°C |
|-----------------|-----------------------------------|--|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| SLA40476B-70L   | 70.00                             | 49.00                                  | 0.125                             | 170.00                             | 155.00                             | 145.00                              | 77.00                             |
| SLA40476B-80L   | 80.00                             | 56.00                                  | 0.125                             | 150.00                             | 135.00                             | 130.00                              | 77.00                             |
| SLA40476B-90L   | 90.00                             | 63.00                                  | 0.125                             | 130.00                             | 120.00                             | 110.00                              | 77.00                             |
| SLA40476B-100L  | 100.00                            | 70.00                                  | 0.125                             | 125.00                             | 110.00                             | 105.00                              | 77.00                             |
| SLA40476B-120L  | 120.00                            | 84.00                                  | 0.125                             | 105.00                             | 93.00                              | 88.00                               | 77.00                             |
| SLA40476B-150L  | 150.00                            | 105.00                                 | 0.125                             | 83.00                              | 75.00                              | 70.00                               | 77.00                             |
| SLA40476B-220L  | 220.00                            | 154.00                                 | 0.125                             | 60.00                              | 54.00                              | 50.00                               | 77.00                             |
| SLA40476B-300L  | 300.00                            | 210.00                                 | 0.125                             | 41.00                              | 38.00                              | 35.00                               | 77.00                             |
| SLA40476B-330L  | 330.00                            | 231.00                                 | 0.125                             | 40.00                              | 35.00                              | 32.00                               | 77.00                             |
| SLA40476B-470L  | 470.00                            | 329.00                                 | 0.125                             | 27.00                              | 24.00                              | 22.00                               | 77.00                             |
| SLA40476B-580L  | 580.00                            | 406.00                                 | 0.125                             | 18.00                              | 17.00                              | 15.00                               | 77.00                             |

## 3. Mechanical Dimension(Unit : mm):

| A     | B    | C     | E      | F      | G      |
|-------|------|-------|--------|--------|--------|
| Max.  | Max. | Max.  | ± 0.30 | ± 0.20 | ± 0.20 |
| 10.00 | 6.00 | 12.00 | 5.00   | 2.40   | 2.40   |



Suggested Pad Layout



Optional Pad Layout



### Notes:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc ,at 25 °C.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1,Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. Irms: DC current for an approximate temperature rise of 40°C without core loss , Derating is necessary for AC currents. PCB pad layout , trace thickness and width , air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130 °C under worst case operating conditions verified in the end application.

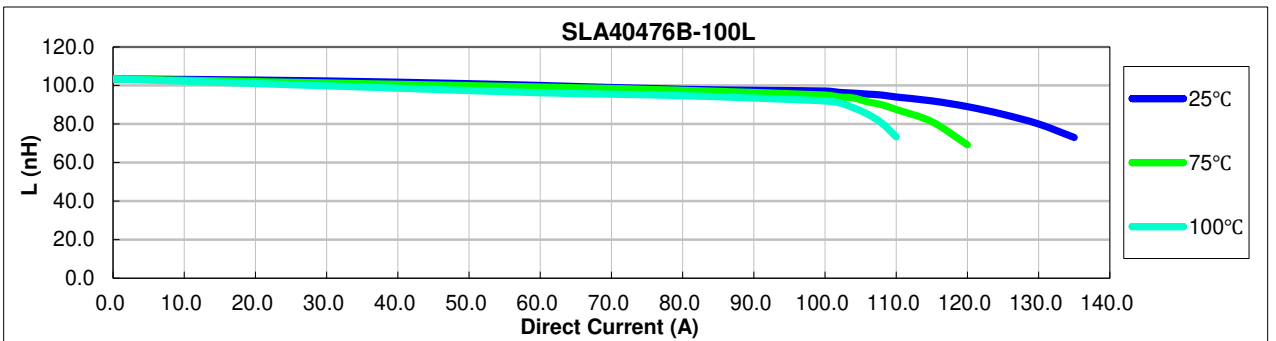
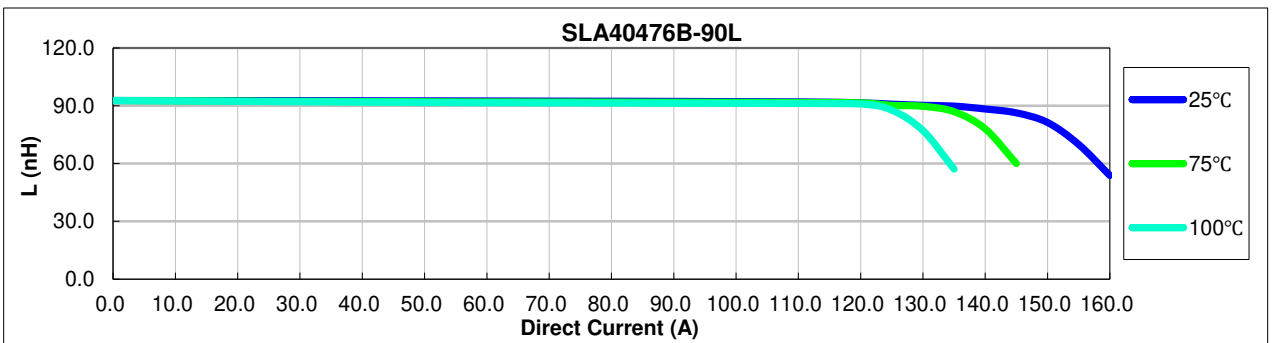
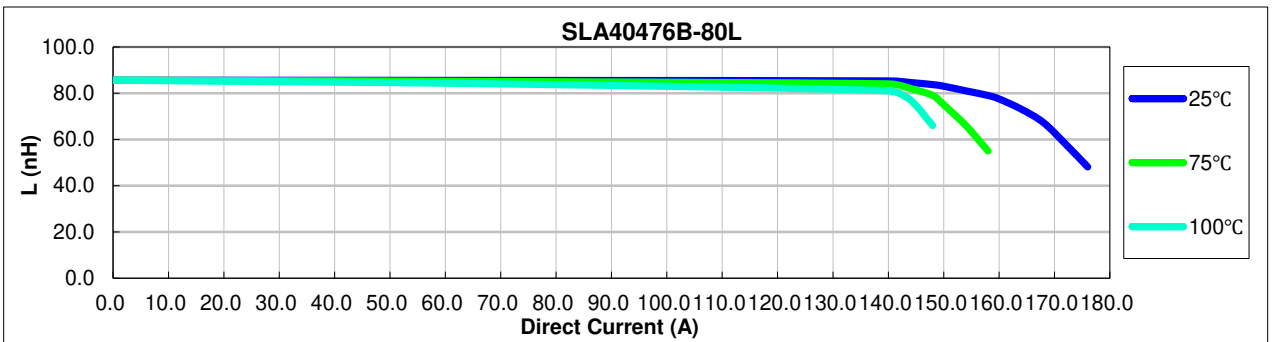
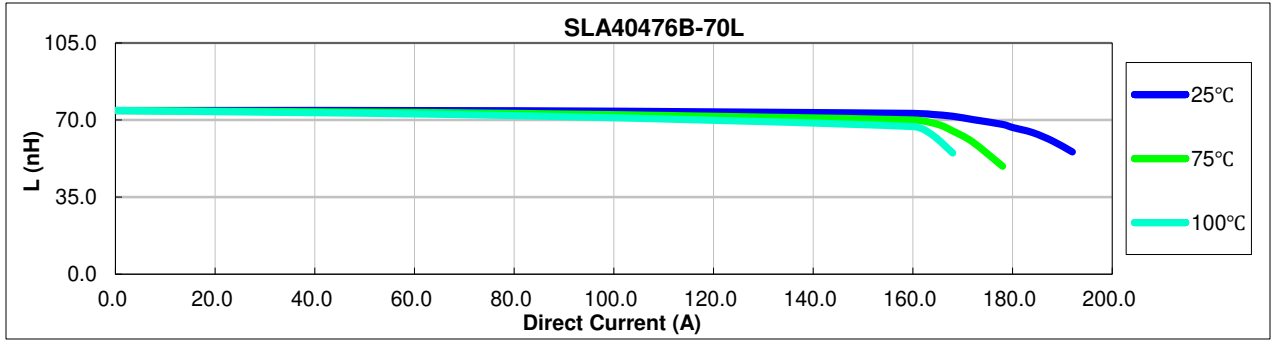


# SLA40476B Series



Halogen Free

## 4. Inductance Characteristics (Inductance vs. Current):

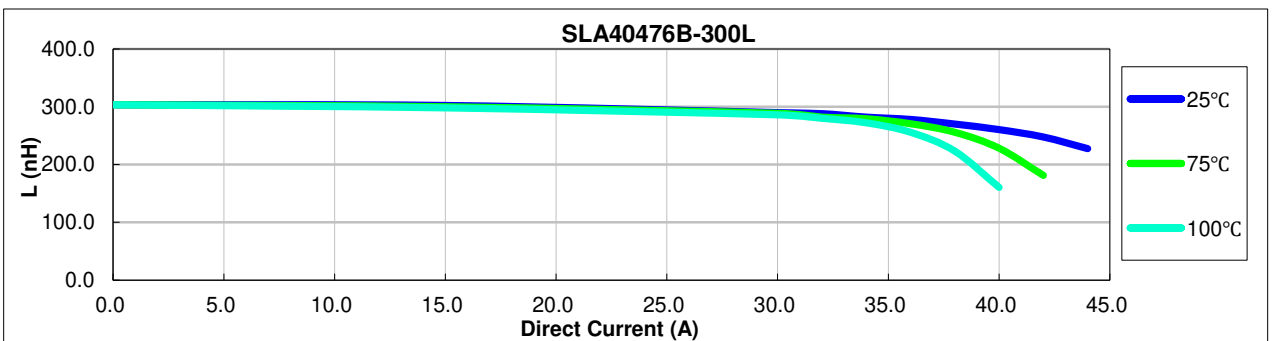
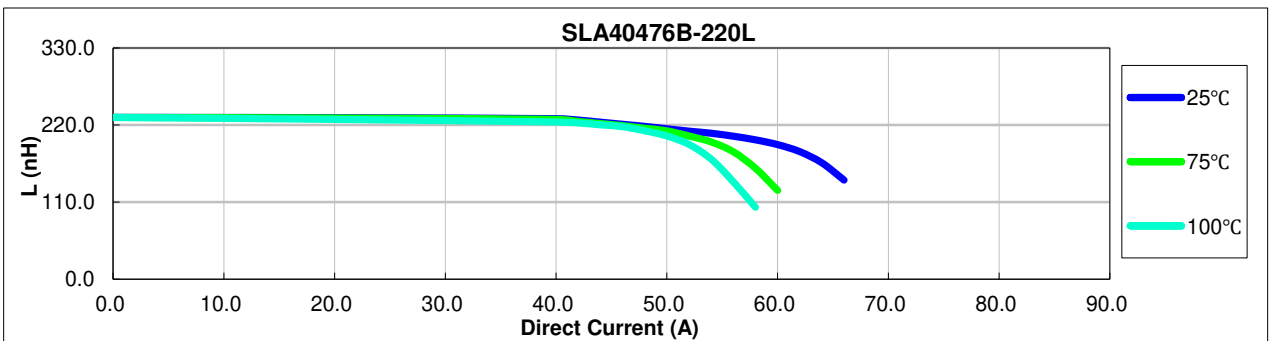
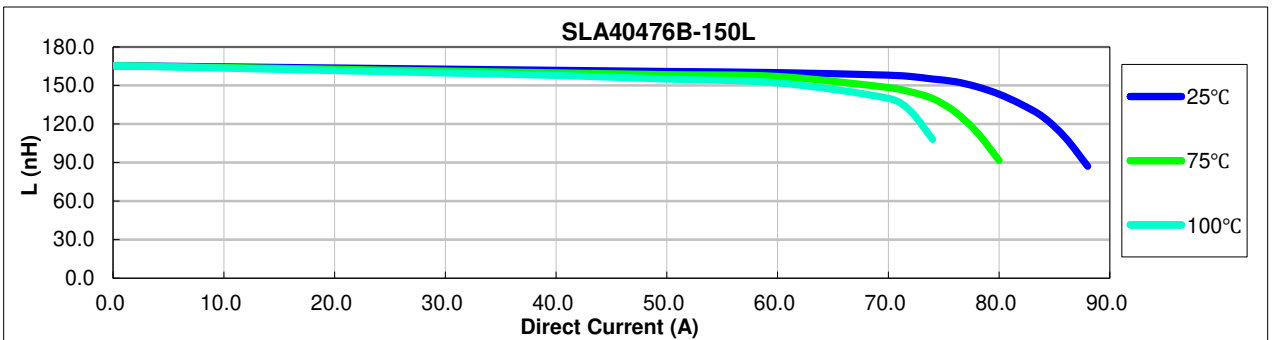
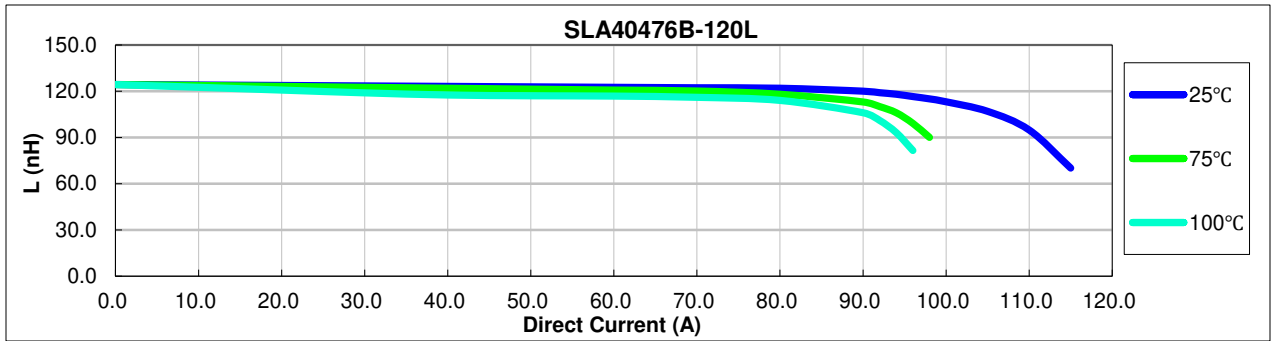


● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275  
 ● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767  
 ● sales@ITG-Electronics.com ● [www.ITG-Electronics.com](http://www.ITG-Electronics.com) Revision A.5: August 21, 2020

\*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



# SLA40476B Series

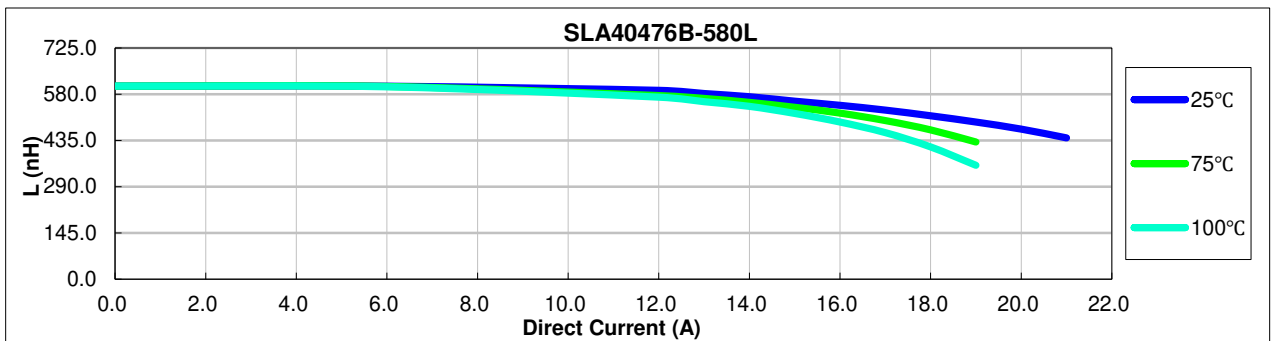
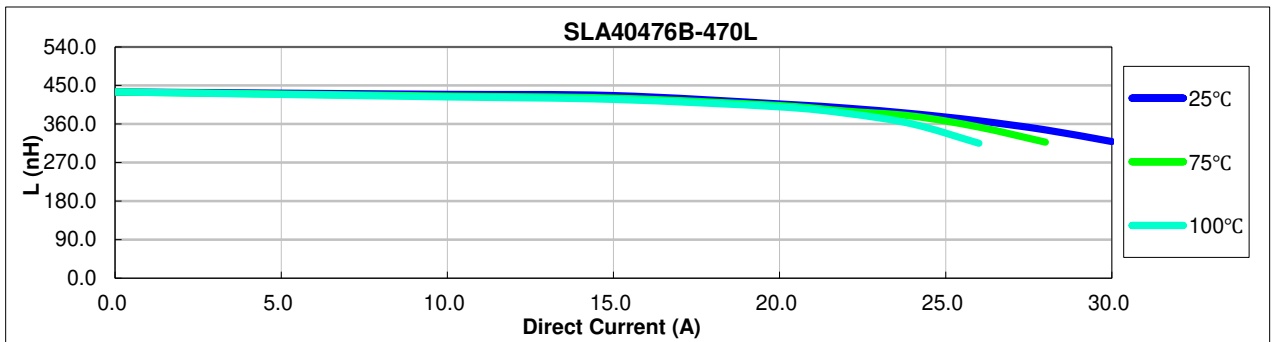
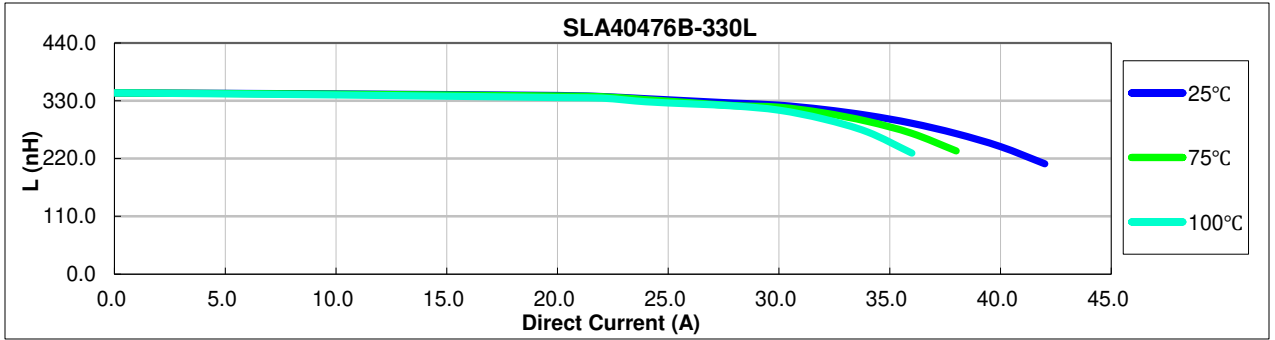


● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275  
● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767  
● sales@ITG-Electronics.com ● [www.ITG-Electronics.com](http://www.ITG-Electronics.com) Revision A.5: August 21, 2020

\*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



# SLA40476B Series



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275  
● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767  
● sales@ITG-Electronics.com ● [www.ITG-Electronics.com](http://www.ITG-Electronics.com) Revision A.5: August 21, 2020

\*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.