

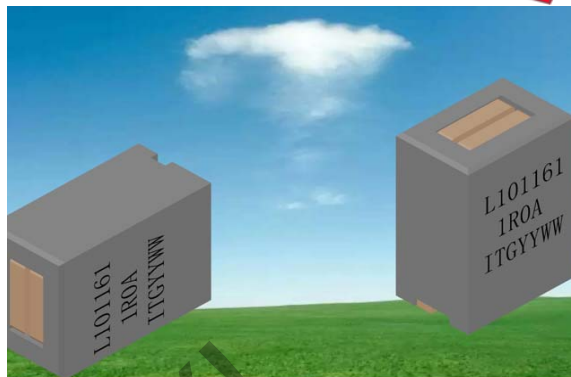


# L101161 Series



## 1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, up to 46.00 Amp with approx. 20% roll off.
- Low Profile 14.00 mm Max.height.
- 10.00 x 7.00 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliant .
- T & R Qtys: 500 pcs , 13" Reel.

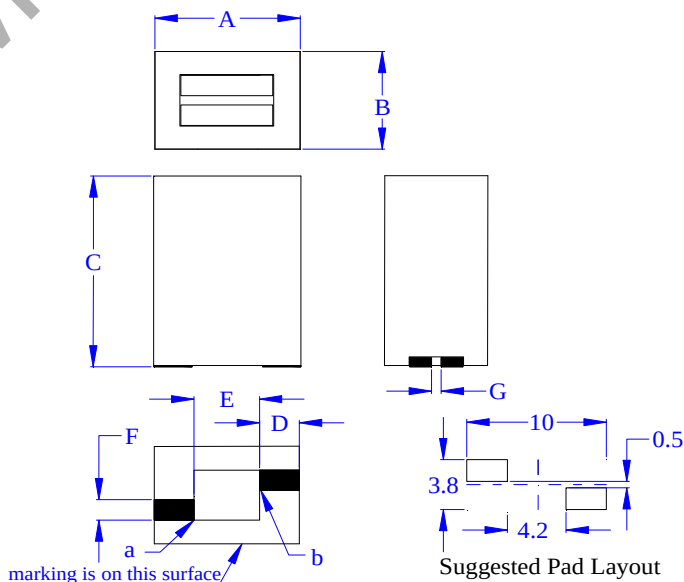


## 2. Electrical Characteristic of L101161 Series:

| Part Number     | OCL <sup>1</sup><br>(nH)<br>± 15% | L @ Isat1 <sup>2</sup><br>(nH)<br>Min.@25°C | 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 |
|-----------------|-----------------------------------|---------------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| L101161A-R68LHF | 680.00                            | 476.00                                      | 1.00                              | 46.00                              | 42.00                              | 37.00                               | 28.00                             |
| L101161A-R82LHF | 820.00                            | 574.00                                      | 1.00                              | 39.00                              | 33.00                              | 30.00                               | 28.00                             |
| L101161A-1R0LHF | 1000.00                           | 700.00                                      | 1.00                              | 32.00                              | 26.00                              | 25.00                               | 28.00                             |
| L101161A-1R2LHF | 1200.00                           | 840.00                                      | 1.00                              | 25.00                              | 21.00                              | 19.00                               | 28.00                             |

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

| A<br>(Max.) | B<br>(Max.) | C<br>(Max.) | D<br>(Nom.) | E<br>(Nom.) | F<br>± 0.20 | G<br>± 0.30 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 10.00       | 7.00        | 14.00       | 2.60        | 4.40        | 1.10        | 1.00        |



### Note:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz, 0.25Vrms, 0Adc at 25°C.
- 2> L @ Isat and L @ Irms Test condition: 100KHz, 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 & Isat4 : 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 as verified in the end application.