



SL2218 Series



1. Features of SL2218 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 55.0 nH to 100.0 nH , custom values are welcomed.
- High current output chokes , up to 63.0 Amp with approx. 20% roll off.
- Low Profile 4.60 mm max height .
- 5.50 x 5.70 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C, RoHS & HF compliant.
- T & R Qty's: 1000pcs, 13" Reel.

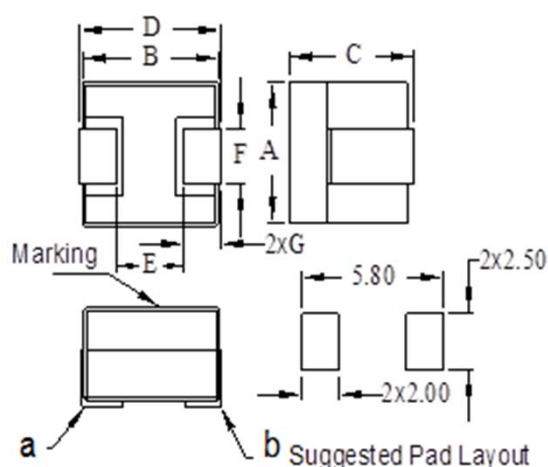


2. Electrical Characteristics of SL2218 Series:

| Part Number | OCL ¹ (nH) ± 15% | L @ Isat1 ² (nH) Min. | DCR ³ (mΩ) ± 10.0% | Isat1 ⁴ (A) @25°C | Isat2 ⁴ (A) @75°C | Isat3 ⁴ (A) @100°C | Irms ⁵ (A) @25°C |
|-----------------|-----------------------------------|--|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| SL2218A-R055LHF | 55.00 | 39.60 | 0.20 | 63.00 | 56.00 | 46.00 | 34.00 |
| SL2218A-R10LHF | 100.00 | 72.00 | 0.20 | 33.00 | 30.00 | 26.00 | 34.00 |

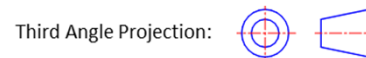
3. Mechanical Dimension of SL2218 Series:

| A (Max.) | B (Max.) | C (Max.) | D (Max.) | E (Nom.) | F ± 0.20 | G ± 0.20 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5.70 | 5.35 | 4.60 | 5.50 | 2.30 | 2.00 | 1.50 |



Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A DC at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 0.1Vrm (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b" as shown above in 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.
6. 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.
7. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.



● 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
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**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.*

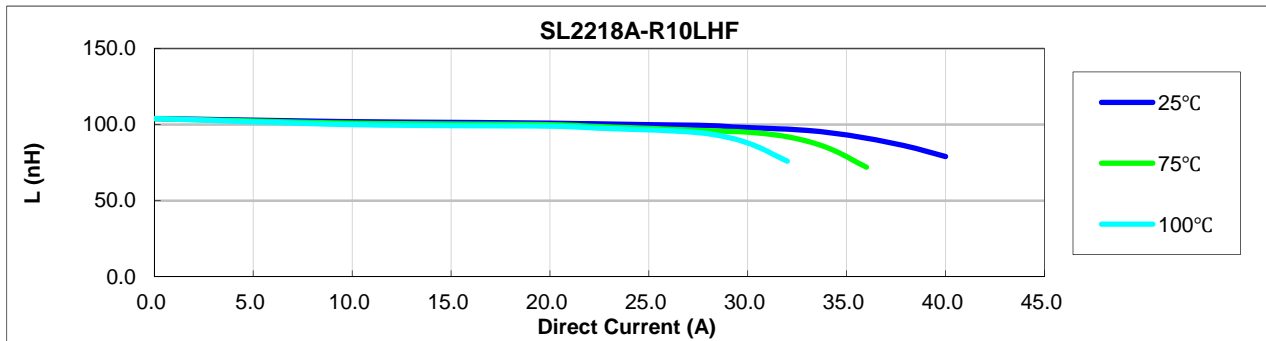
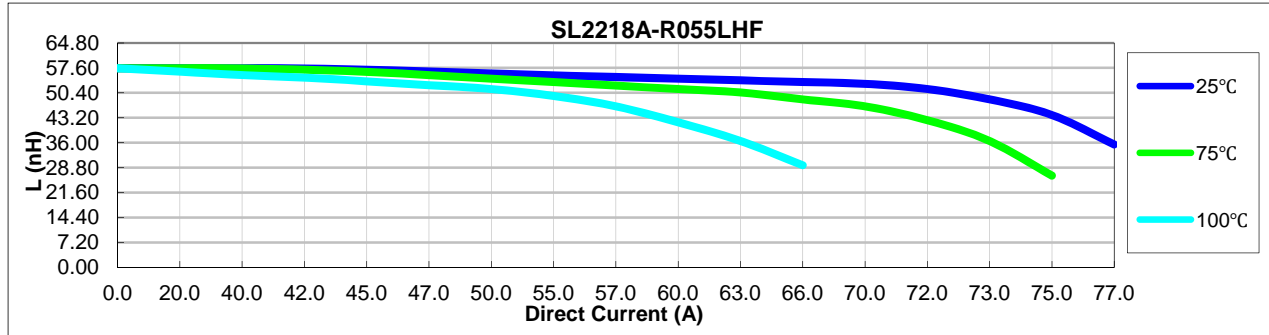


Halogen Free

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4. Inductance Characteristics of SL2218 Series (Inductance vs Current):



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