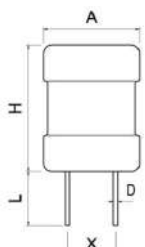
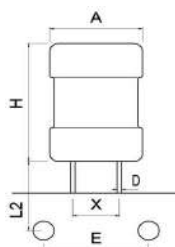


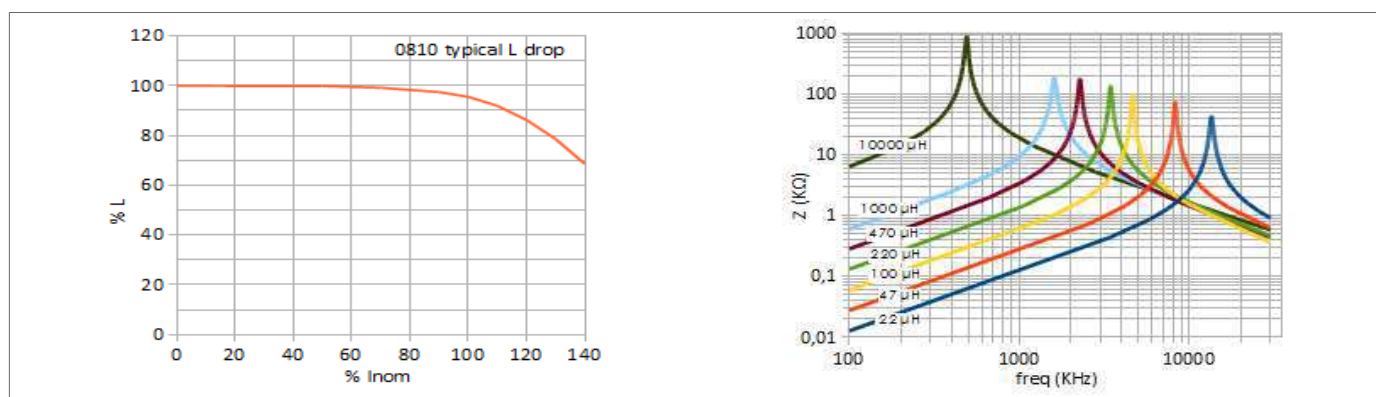
## SLD0810 series - 10μH...10mH 4A...140mA

- Suited for both EMC and energy storage using (filters, SMPS, etc.)
- SLDxxxxxx = Bulk packaging
- SLDxxxxxxN = Taped packaging (with the suffix "N")
- Other values on request
- Available in Design kit (see on [www.itacoilweb.com/portfolio/inductors-design-kit/](http://www.itacoilweb.com/portfolio/inductors-design-kit/))



| Code                    | Nominal Inductance <sup>1</sup> | Nominal Current <sup>2</sup> | Saturation Current <sup>3</sup> | Typical DCR <sup>4</sup> | SRF min |
|-------------------------|---------------------------------|------------------------------|---------------------------------|--------------------------|---------|
| SLD0810100              | 10 μH                           | 4.11 A                       | 5.13 A                          | 19 mΩ                    | 9.5 MHz |
| SLD0810150              | 15 μH                           | 3.45 A                       | 4.17 A                          | 27 mΩ                    | 9.5 MHz |
| SLD0810220 <sup>p</sup> | 22 μH                           | 2.90 A                       | 3.39 A                          | 38 mΩ                    | 9.5 MHz |
| SLD0810330              | 33 μH                           | 2.39 A                       | 2.85 A                          | 56 mΩ                    | 5.8 MHz |
| SLD0810470 <sup>p</sup> | 47 μH                           | 2.00 A                       | 2.33 A                          | 80 mΩ                    | 5.8 MHz |
| SLD0810680              | 68 μH                           | 1.63 A                       | 1.97 A                          | 125 mΩ                   | 3.2 MHz |
| SLD0810101 <sup>p</sup> | 100 μH                          | 1.36 A                       | 1.62 A                          | 190 mΩ                   | 3.2 MHz |
| SLD0810151              | 150 μH                          | 1.15 A                       | 1.33 A                          | 250 mΩ                   | 2.4 MHz |
| SLD0810221 <sup>p</sup> | 220 μH                          | 0.95 A                       | 1.10 A                          | 355 mΩ                   | 2.4 MHz |
| SLD0810331              | 330 μH                          | 0.77 A                       | 0.90 A                          | 540 mΩ                   | 1.6 MHz |
| SLD0810471 <sup>p</sup> | 470 μH                          | 0.62 A                       | 0.75 A                          | 825 mΩ                   | 1.6 MHz |
| SLD0810681              | 680 μH                          | 0.52 A                       | 0.62 A                          | 1.18 Ω                   | 1.1 MHz |
| SLD0810102 <sup>p</sup> | 1.0 mH                          | 0.42 A                       | 0.52 A                          | 1.75 Ω                   | 1.1 MHz |
| SLD0810222              | 2.2 mH                          | 0.29 A                       | 0.35 A                          | 3.95 Ω                   | 0.7 MHz |
| SLD0810472              | 4.7 mH                          | 0.20 A                       | 0.24 A                          | 8.15 Ω                   | 0.5 MHz |
| SLD0810103              | 10 mH                           | 0.14 A                       | 0.16 A                          | 16.7 Ω                   | 0.3 MHz |

| Dimensions | mm   | Bulk version drawing                                                                | .stp file Download                                                                  | Dimensions | mm   | Taped version drawing                                                                 | .stp file Download                                                                    |
|------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| A max (Ø)  | 9.9  |  |  | A max (Ø)  | 9.9  |  |  |
| H max      | 12.9 |                                                                                     |                                                                                     | H max      | 12.9 |                                                                                       |                                                                                       |
| X typ      | 5.0  |                                                                                     |                                                                                     | X typ      | 5.0  |                                                                                       |                                                                                       |
| L min      | 3.0  |                                                                                     |                                                                                     | L2 min     | 18.0 |                                                                                       |                                                                                       |
| D typ (Ø)  | 0.6  |                                                                                     |                                                                                     | D typ (Ø)  | 0.6  |                                                                                       |                                                                                       |
|            |      |                                                                                     |                                                                                     | E typ      | 12.7 |                                                                                       |                                                                                       |



<sup>1</sup> Tolerances ±10% - Measured @10KHz-100mV.

<sup>2</sup> Max continuous DC current for 30°C temperature rise. The temperature of inductor does not exceed 125°C, Trise included.

<sup>3</sup> Max peak current for inductance decreasing within rated value -25%.

<sup>4</sup> Referred to 20°C.

<sup>p</sup> Preferential items usually on stock (bulk packaging version).