

# SMD HIGH CURRENT INDUCTORS

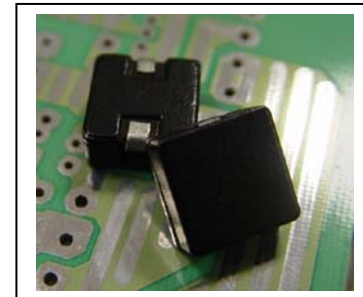
MODEL NO. : SSC-12850 HF SERIES

## FEATURES:

- \* LOW CORE LOSS, HIGH EFFICIENCY PERFORMANCE, HIGH MAGNETIC CHARACTERISTICS.
- \* CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY.
- \* RIBBON WIRE STRUCTURE.
- \* CUSTOM DESIGNS AVAILABLE.
- \* COMPLIANT WITH RoHS AND HALOGEN FREE.

## APPLICATION :

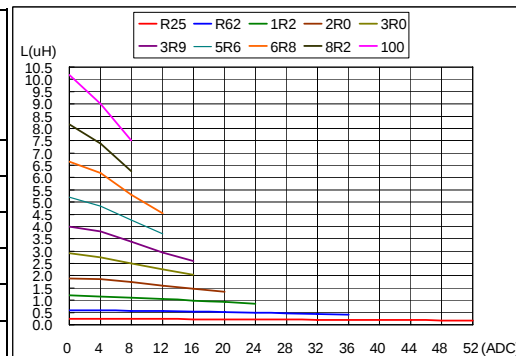
- \* DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- \* CPU INDUCTOR IN NOTEBOOK COMPUTERS.
- \* VGA CARD.



## ELECTRICAL SPECIFICATION:

| PART NO          | INDUCTANCE<br>(uH)±20%<br>@0ADC | INDUCTANCE<br>(uH)TYP<br>@TEMPERATURE<br>RISE CURRENT | TEMPERATURE<br>RISE CURRENT<br>(ADC) | SATURATION<br>CURRENT<br>(ADC)<br>(NOTE 3) | DCR<br>±10%<br>(mOHMS) |
|------------------|---------------------------------|-------------------------------------------------------|--------------------------------------|--------------------------------------------|------------------------|
| SSC-12850-R25 HF | 0.25±30%                        | 0.21                                                  | 30.0                                 | 50.0                                       | 0.50                   |
| SSC-12850-R62 HF | 0.62                            | 0.48                                                  | 27.0                                 | 34.0                                       | 0.90                   |
| SSC-12850-1R2 HF | 1.2                             | 0.90                                                  | 22.0                                 | 24.0                                       | 1.67                   |
| SSC-12850-2R0 HF | 2.0                             | 1.45                                                  | 18.5                                 | 20.0                                       | 2.60                   |
| SSC-12850-3R0 HF | 3.0                             | 2.1                                                   | 15.5                                 | 15.0                                       | 3.74                   |
| SSC-12850-3R9 HF | 3.9                             | 3.0                                                   | 13.0                                 | 14.0                                       | 5.40                   |
| SSC-12850-5R6 HF | 5.6                             | 3.8                                                   | 11.0                                 | 12.0                                       | 7.64                   |
| SSC-12850-6R8 HF | 6.8                             | 5.0                                                   | 9.5                                  | 10.5                                       | 10.6                   |
| SSC-12850-8R2 HF | 8.2                             | 6.1                                                   | 9.0                                  | 9.5                                        | 11.9                   |
| SSC-12850-100 HF | 10.0                            | 7.5                                                   | 8.0                                  | 9.0                                        | 15.0                   |

## INDUCTANCE VS DC BIAS:



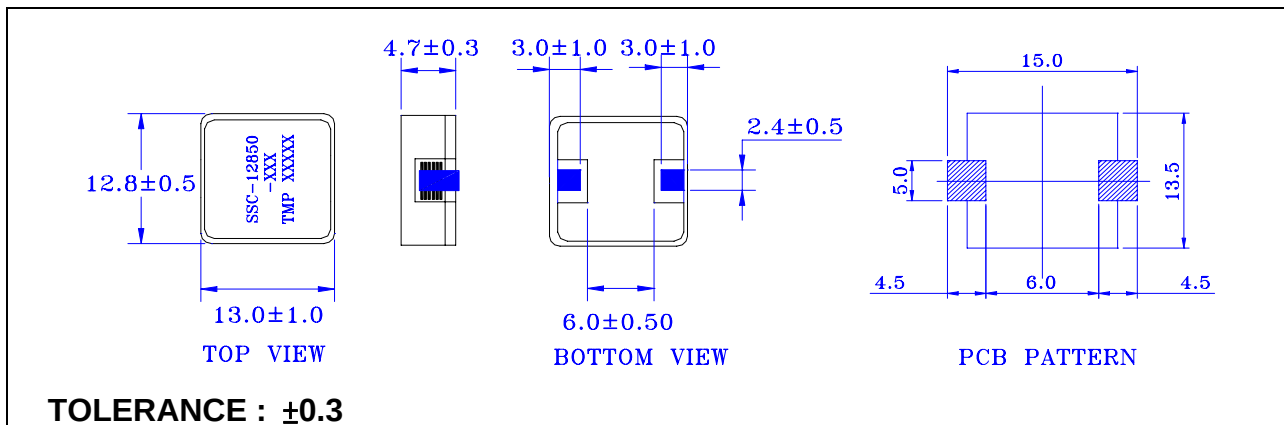
NOTE(1) : Test frequency: 100 KHZ,1Vrms.

NOTE(2) :  $\Delta T=40^{\circ}\text{C}$  approximately under the temperature rise current.

NOTE(3) : The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range:  $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$

## PHYSICAL DIMENSION : (UNIT:mm)



## PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",400PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm
4. COMPONENT PITCH:16mm