

# SMD HIGH CURRENT INDUCTORS

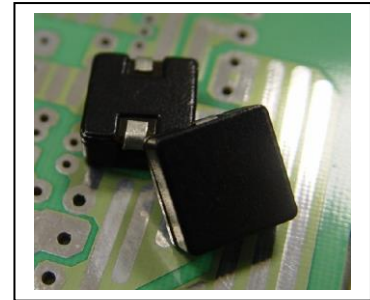
**MODEL NO. : SSC-12850 HF SERIES**

## FEATURES:

- \* LOW CORE LOSS, HIGH EFFICIENCY PERFORMANCE, HIGH MAGNETIC CHARACTERISTICS.
- \* AEC-Q200 COMPLIANCE.
- \* RIBBON WIRE STRUCTURE.
- \* CUSTOM DESIGNS AVAILABLE.
- \* COMPLIANT WITH RoHS AND HALOGEN FREE.

## APPLICATION :

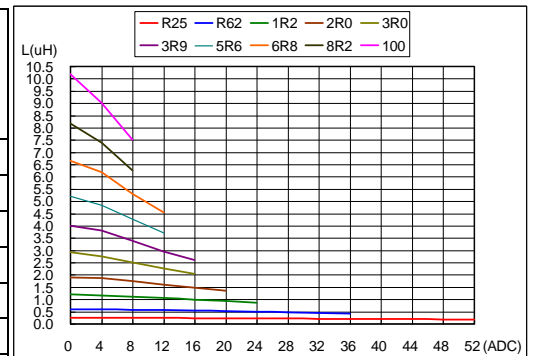
- \* DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- \* CPU INDUCTOR IN NOTEBOOK COMPUTERS.
- \* VGA CARD.



## ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH) $\pm 20\%$ @0ADC	INDUCTANCE (uH)TYP @TEMPERATURE RISE CURRENT	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)	DCR $\pm 10\%$ (mOHMS)
SSC-12850-R25 HF	0.25 $\pm 30\%$	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:



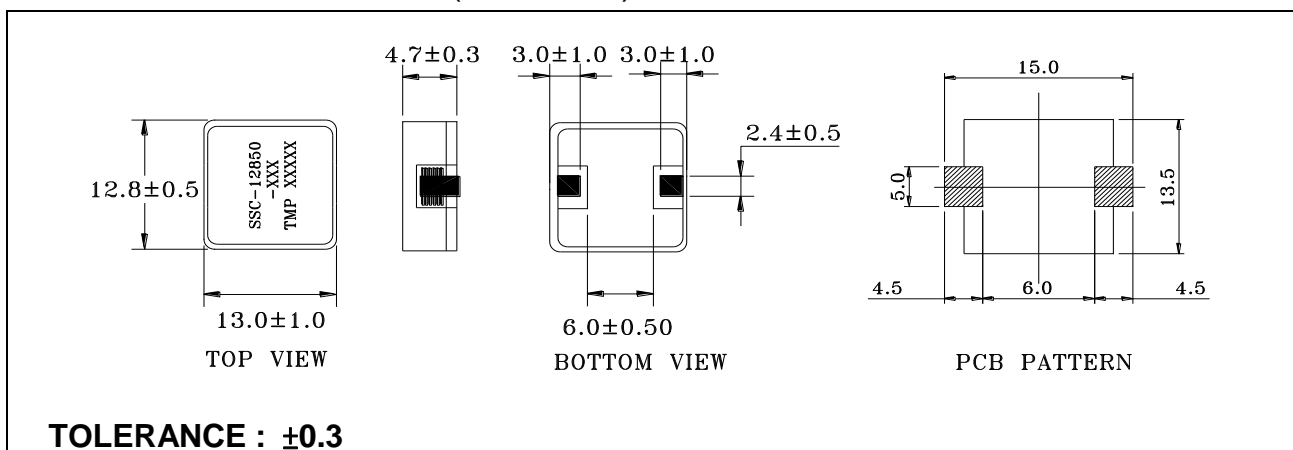
NOTE(1) : Test frequency: 100 KHZ, 1Vrms.

NOTE(2) :  $\Delta T = 40^{\circ}C$  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:  $-40^{\circ}C \sim +150^{\circ}C$

## 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