

# SMD

## HIGH CURRENT INDUCTORS

MODEL NO. : SSC-07650N2 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 :

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



### ELECTRICAL SPECIFICATION:

| PART NO            | INDUCTANCE<br>( $\mu$ H) $\pm 20\%$<br>@0ADC | INDUCTANCE<br>( $\mu$ H) TYP | TEMPERATURE<br>RISE CURRENT<br>(ADC) | INDUCTANCE<br>( $\mu$ H)TYP | SATURATION<br>CURRENT<br>(ADC)<br>(NOTE 3) | DCR<br>$\pm 10\%$<br>(m $\Omega$ ) |
|--------------------|----------------------------------------------|------------------------------|--------------------------------------|-----------------------------|--------------------------------------------|------------------------------------|
| SSC-07650N2-R28 HF | 0.28 $\pm 30\%$                              | 0.24                         | 23.0                                 | 0.20                        | 35.0                                       | 0.80                               |
| SSC-07650N2-R52 HF | 0.52 $\pm 30\%$                              | 0.43                         | 17.0                                 | 0.38                        | 25.5                                       | 1.40                               |
| SSC-07650N2-R85 HF | 0.85                                         | 0.65                         | 16.5                                 | 0.63                        | 20.0                                       | 2.15                               |
| SSC-07650N2-1R3 HF | 1.3                                          | 1.00                         | 13.5                                 | 0.94                        | 15.5                                       | 3.50                               |
| SSC-07650N2-1R8 HF | 1.8                                          | 1.35                         | 11.5                                 | 1.32                        | 11.5                                       | 4.55                               |
| SSC-07650N2-2R4 HF | 2.4                                          | 1.80                         | 10.0                                 | 1.73                        | 9.5                                        | 5.80                               |
| SSC-07650N2-3R1 HF | 3.1                                          | 2.30                         | 9.5                                  | 2.20                        | 10                                         | 7.50                               |
| SSC-07650N2-3R8 HF | 3.8                                          | 2.75                         | 8.5                                  | 2.80                        | 8.5                                        | 9.70                               |
| SSC-07650N2-4R7 HF | 4.7                                          | 3.45                         | 7.5                                  | 3.45                        | 7.5                                        | 12.5                               |
| SSC-07650N2-5R6 HF | 5.6                                          | 3.90                         | 7.3                                  | 4.20                        | 6.4                                        | 13.3                               |
| SSC-07650N2-6R8 HF | 6.8                                          | 4.90                         | 6.5                                  | 5.10                        | 6.0                                        | 16.4                               |
| SSC-07650N2-7R9 HF | 7.9                                          | 5.80                         | 5.6                                  | 5.90                        | 5.5                                        | 21.2                               |
| SSC-07650N2-9R1 HF | 9.1                                          | 6.90                         | 5.0                                  | 6.95                        | 4.9                                        | 24.8                               |

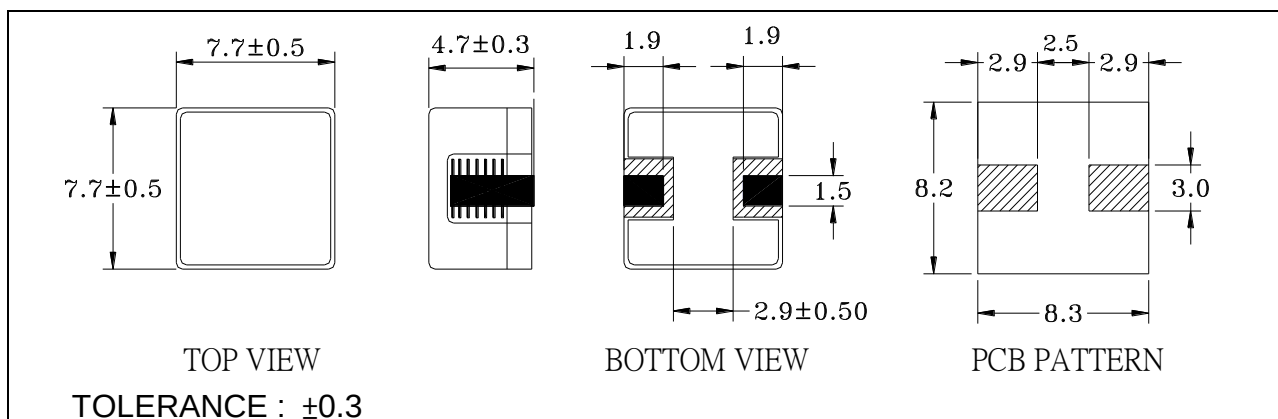
NOTE(1): Test frequency: 100 KHZ,1Vrms.

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",1000PCS.
2. TAPE WIDTH:16mm.
3. REEL WIDTH:21.5mm.
4. COMPONENT PITCH:12mm