

# HIGH CURRENT INDUCTORS



MODEL NO. : PSC-330150 HF SERIES

## FEATURES:

- \* LOW CORE LOSS AND HIGH EFFICIENCY PERFORMANCE.
- \* CLOSE MAGNETIC PATH FOR LOW LEAKAGE FLUX.
- \* LOW DCR WITH FLAT WIRE DESIGN.
- \* COMPLIANT WITH ROHS AND HALOGEN FREE.



## APPLICATION :

- \* DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- \* PV INVERTERS

## ELECTRICAL SPECIFICATION:

| MODEL NO          | INDUCTANCE<br>±10%<br>(uH) | DCR<br>±10%<br>(mΩ) | TEMPERATURE<br>RISE CURRENT<br>(ADC)<br>(NOTE 2) | SATURATION<br>CURRENT<br>(ADC) |                 |                 |
|-------------------|----------------------------|---------------------|--|--------------------------------|-----------------|-----------------|
|                   |                            |                     |  | @25°C<br>(NOTE3)               | @100°C          | @160°C          |
| PSC-330150-3R5 HF | 3.5                        | 1.25                | 50.0   | >80                            | L@72ADC ≥ 2.5uH | L@57ADC ≥ 2.4uH |
| PSC-330150-6R5 HF | 6.5                        | 1.25                | 46.0   | 51                             | L@41ADC ≥ 4.6uH | L@32ADC ≥ 4.5uH |
| PSC-330150-9R0 HF | 9.0                        | 3.0                 | 36.0   | 60                             | L@46ADC ≥ 6.5uH | L@36ADC ≥ 6.3uH |

NOTE (1): Measuring condition : 100 KHZ ,0.1Vrms.

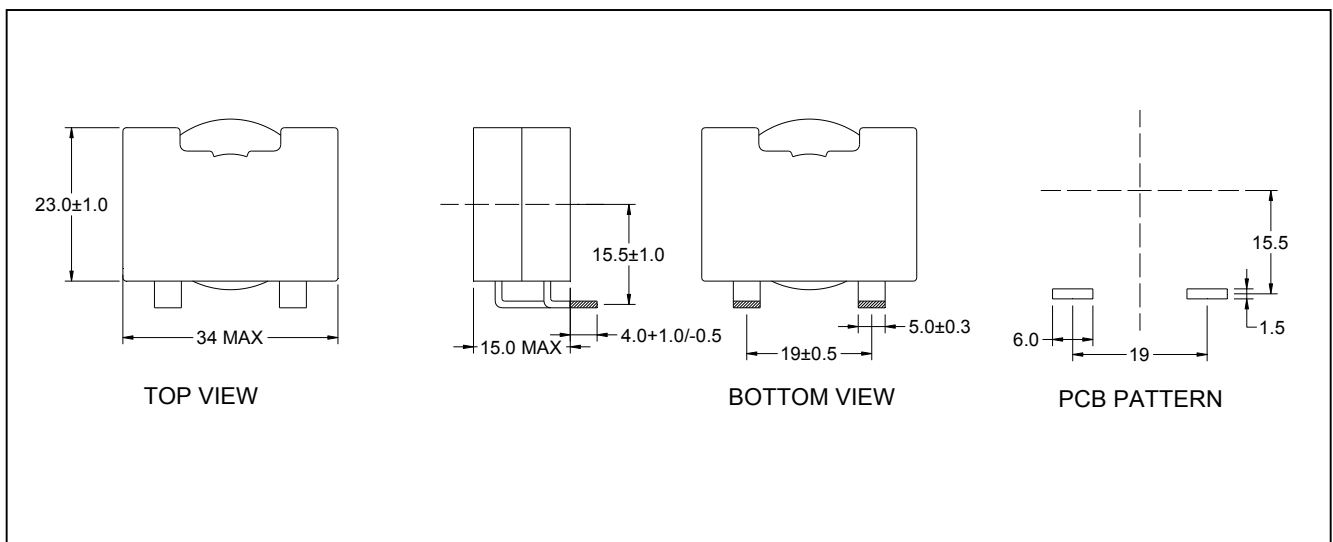
NOTE (2):  $\Delta T=40^{\circ}\text{C}$  approximately under the temperature rise current.

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

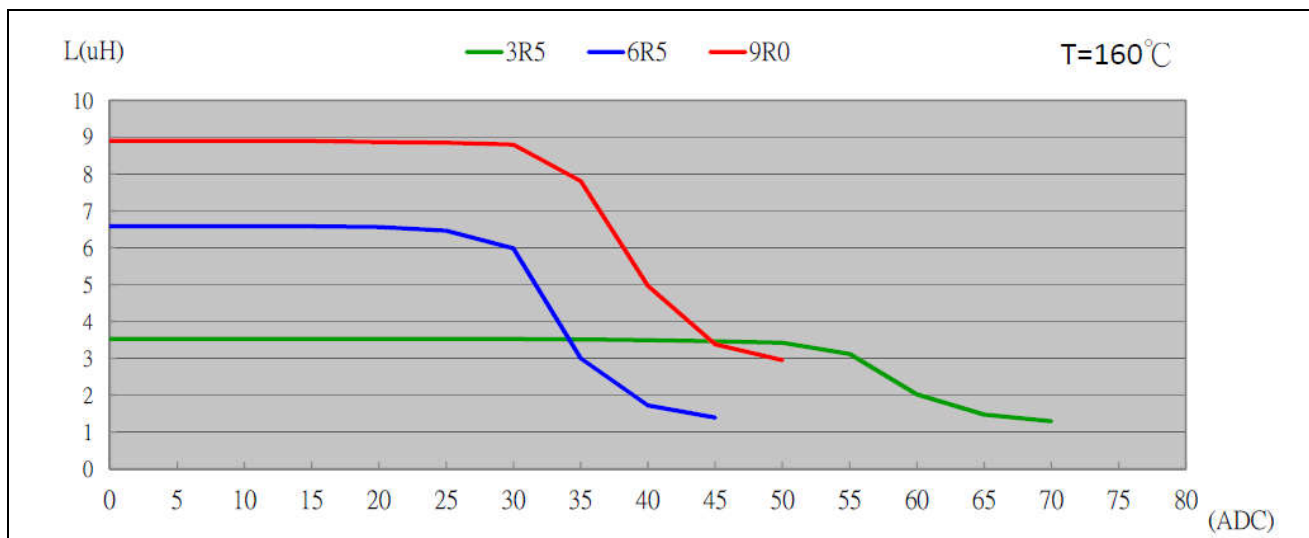
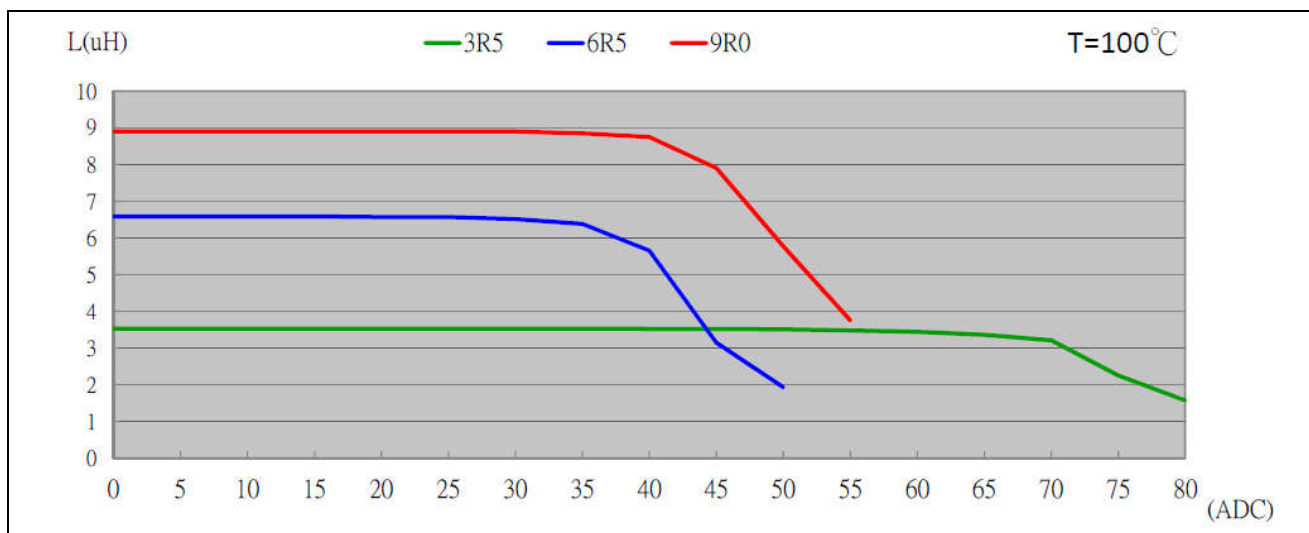
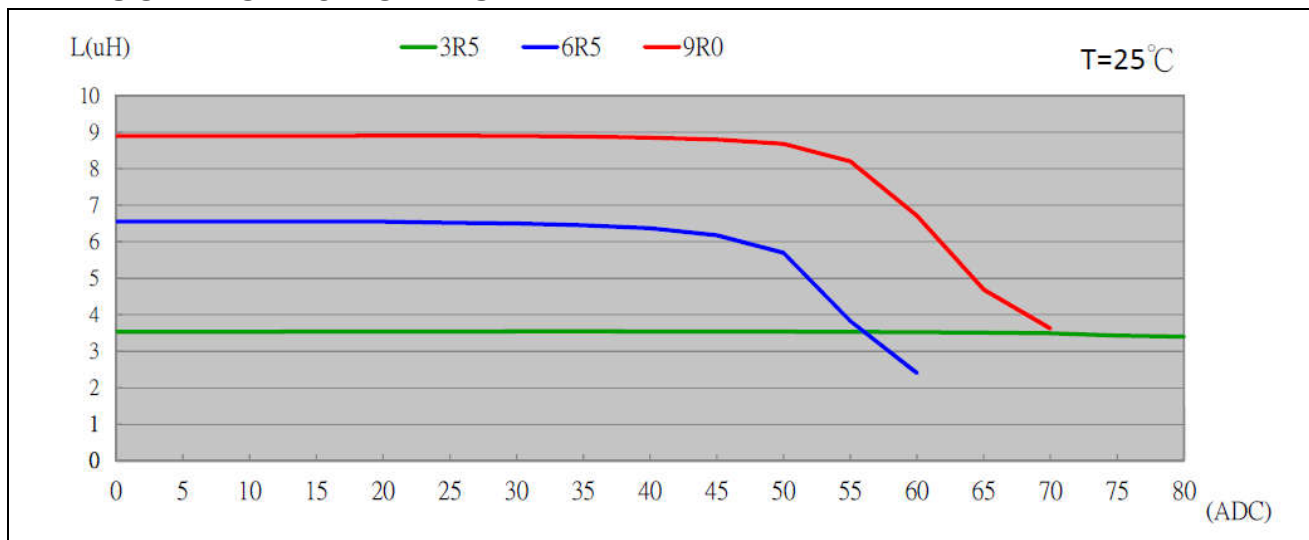
NOTE (4): Operating temperature range:  $-40^{\circ}\text{C}\sim+160^{\circ}\text{C}$ .

NOTE (5): Storage time :The recommended storage time of Inductor is maximum 12 months, and don't suggest to use the parts over 12 months

## PHYSICAL DIMENSION : (UNIT:mm)



## INDUCTANCE vs DC BIAS:



**TEMPERATURE vs DC BIAS :**