

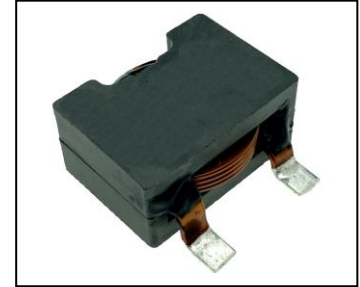


HIGH CURRENT INDUCTORS

MODEL NO : SHI-330150MZ SERIES

Features :

- * SMD version.
- * Low core loss and high efficiency performance.
- * Close magnetic path for low leakage flux.
- * Low DCR with flat wire design.
- * Compliant with RoHS and REACH.



Application :

- * DC/DC converter in power regulation system.
- * PV inverters.

Electrical Specification :

PART NO	INDUCTANCE ±10% (uH)	DCR ±10% (mΩ)	TEMPERATURE RISE CURRENT (ADC) (NOTE 2)	SATURATION CURRENT (ADC)		
				@25°C (NOTE3)	@100°C	@160°C
SHI-330150MZ-2R2	2.2	0.83	55.0	110	L@86DC ≥ 1.6uH	L@69ADC ≥ 1.5uH
SHI-330150MZ-3R5	3.5	1.25	50.0	90	L@72ADC ≥ 2.5uH	L@57ADC ≥ 2.4uH
SHI-330150MZ-6R5	6.5	1.25	46.0	51	L@41ADC ≥ 4.6uH	L@32ADC ≥ 4.5uH
SHI-330150MZ-9R0	9.0	3.0	36.0	60	L@46ADC ≥ 6.5uH	L@36ADC ≥ 6.3uH

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

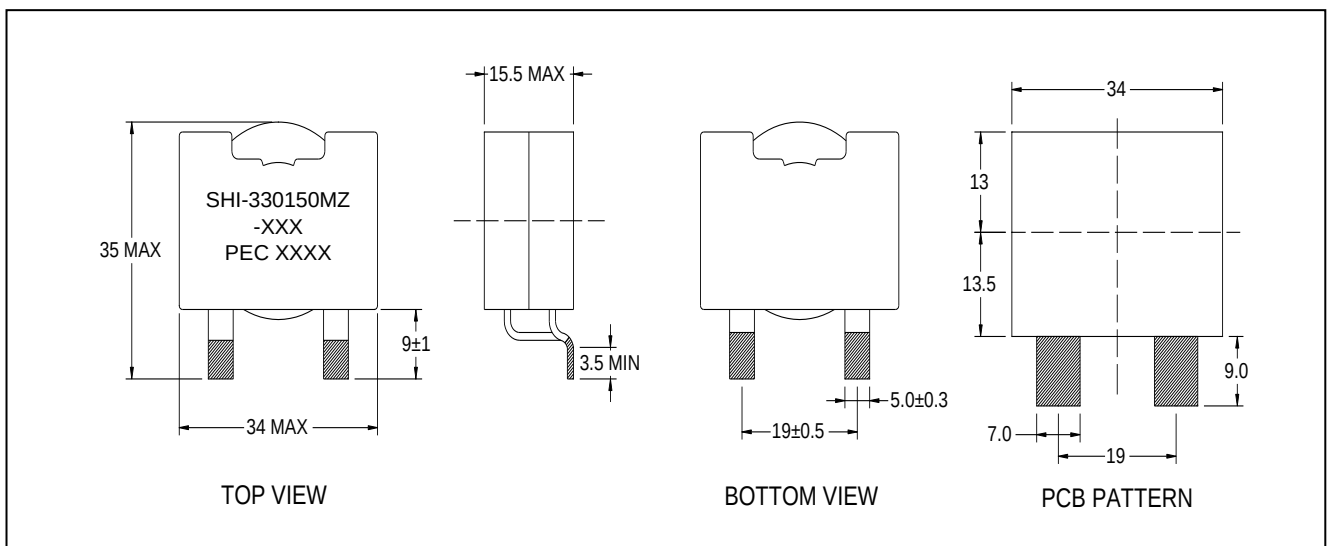
NOTE (2): $\Delta T=50^{\circ}\text{C}$ approximately under the temperature rise current.

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

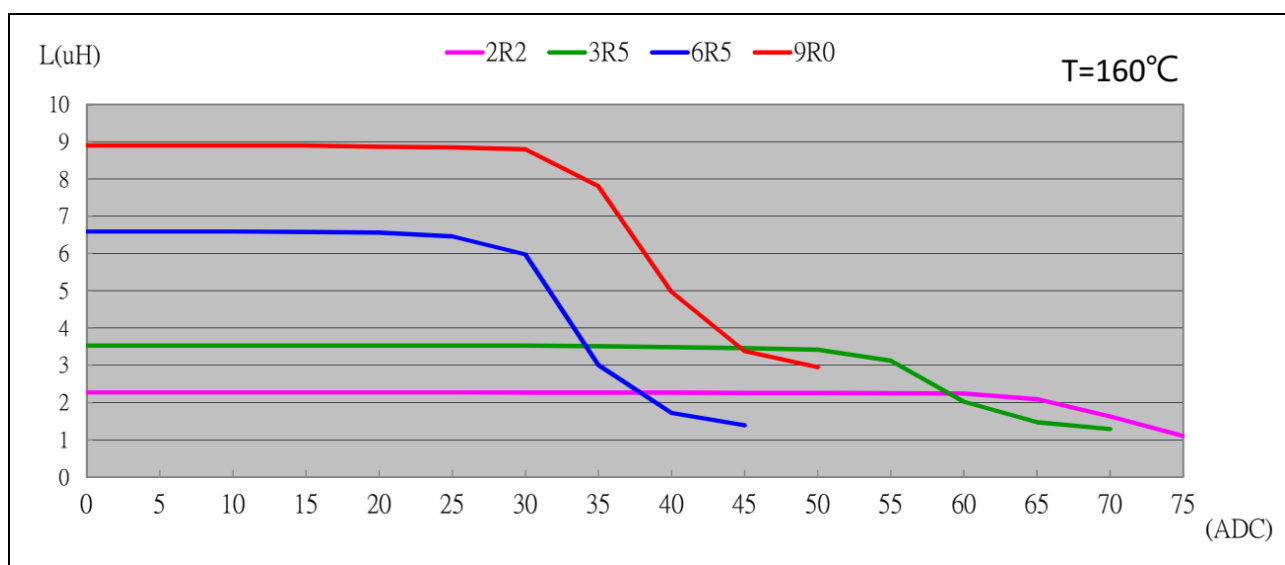
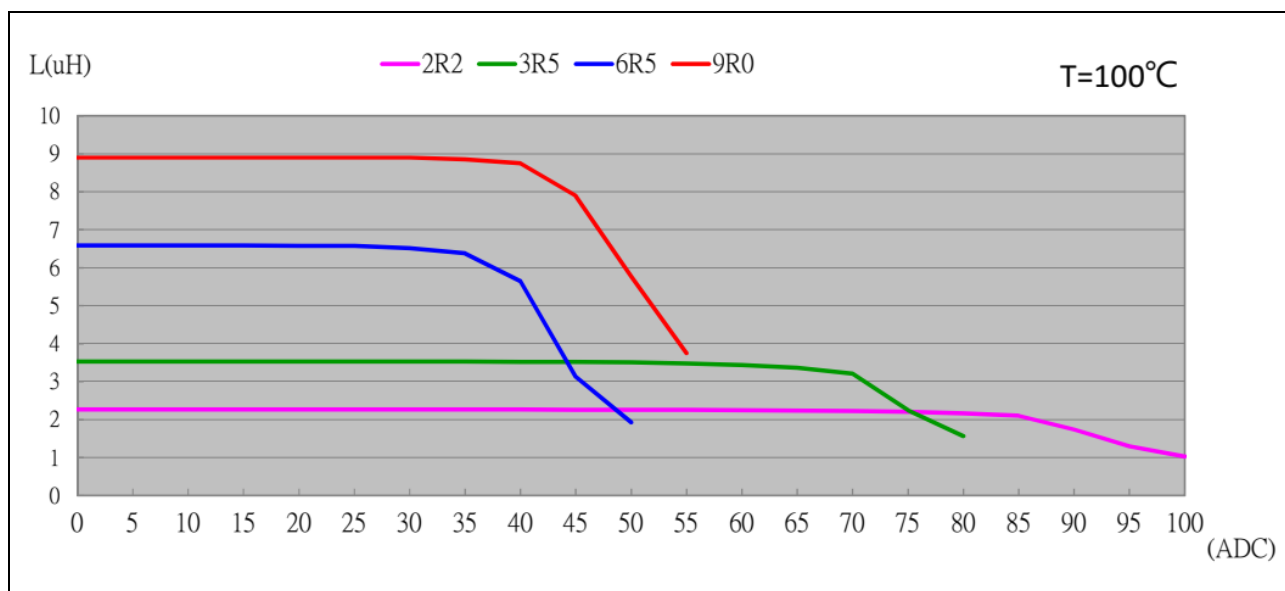
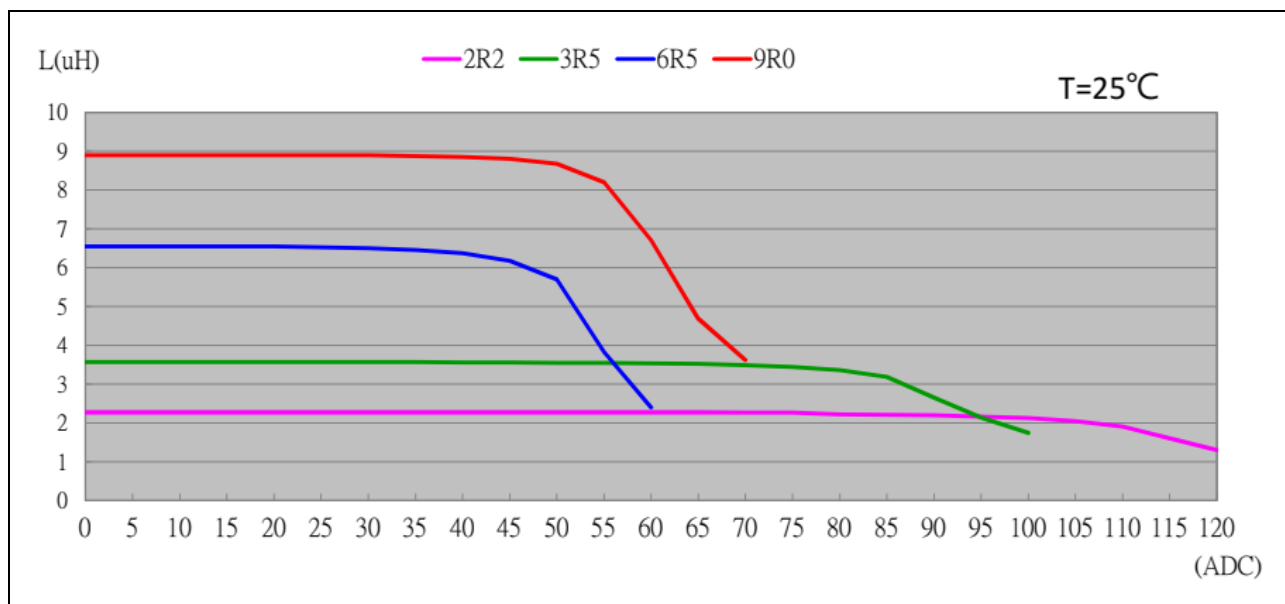
NOTE (4): Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.

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 :

