



# HIGH CURRENT INDUCTORS

## MODEL NO : SHI-192140MZ SERIES

### Features :

- \* SMD version.
- \* Low core loss and high efficiency performance.
- \* Close magnetic path for low leakage flux.
- \* Third mounting pad for greater stability and board adhesion.
- \* Low DCR with flat wire design.
- \* Compliant with RoHS and REACH.



### Application :

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

### Electrical Specification :

MODEL NO	INDUCTANCE ±20% (uH)	DCR ±10% (mΩ)	RATED CURRENT (ADC) (NOTE2)	TEMPERATURE RISE CURRENT (ADC) (NOTE3)	SATURATION CURRENT (ADC) (NOTE 4)
SHI-192140MZ-R80	0.80	1.95	27	27	98
SHI-192140MZ-R90	0.90	1.95	27	27	87
SHI-192140MZ-1R0	1.0	1.95	27	27	70
SHI-192140MZ-1R2	1.2	1.95	27	27	63
SHI-192140MZ-2R0	2.0	1.95	27	27	45
SHI-192140MZ-4R0	4.0	1.95	26	27	26

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

NOTE (2): The rated current is either the saturation current or the temperature rise current depending on which value is lower.

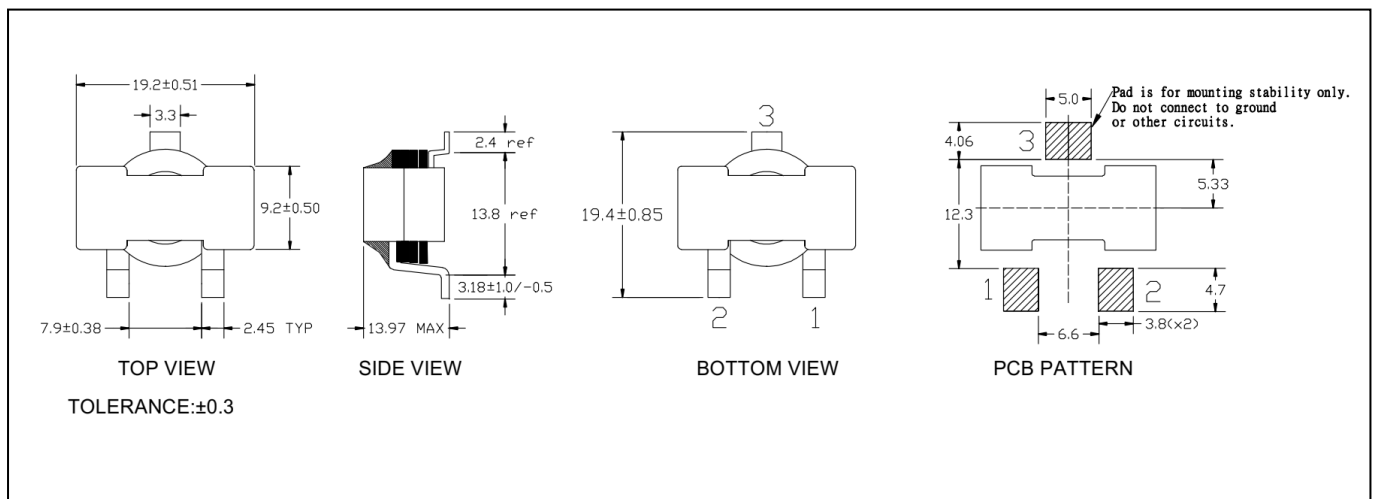
NOTE (3): ΔT=40°C approximately under the temperature rise current.

NOTE (4): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

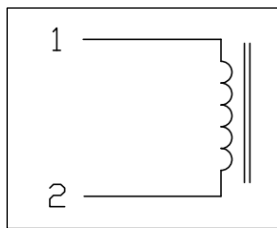
NOTE (5): Operating temperature range: -40°C~+150°C.

NOTE (6): Storage time :The recommended storage time of Inductor is maximum 12 months, and don't suggest to use the parts over 12 months.

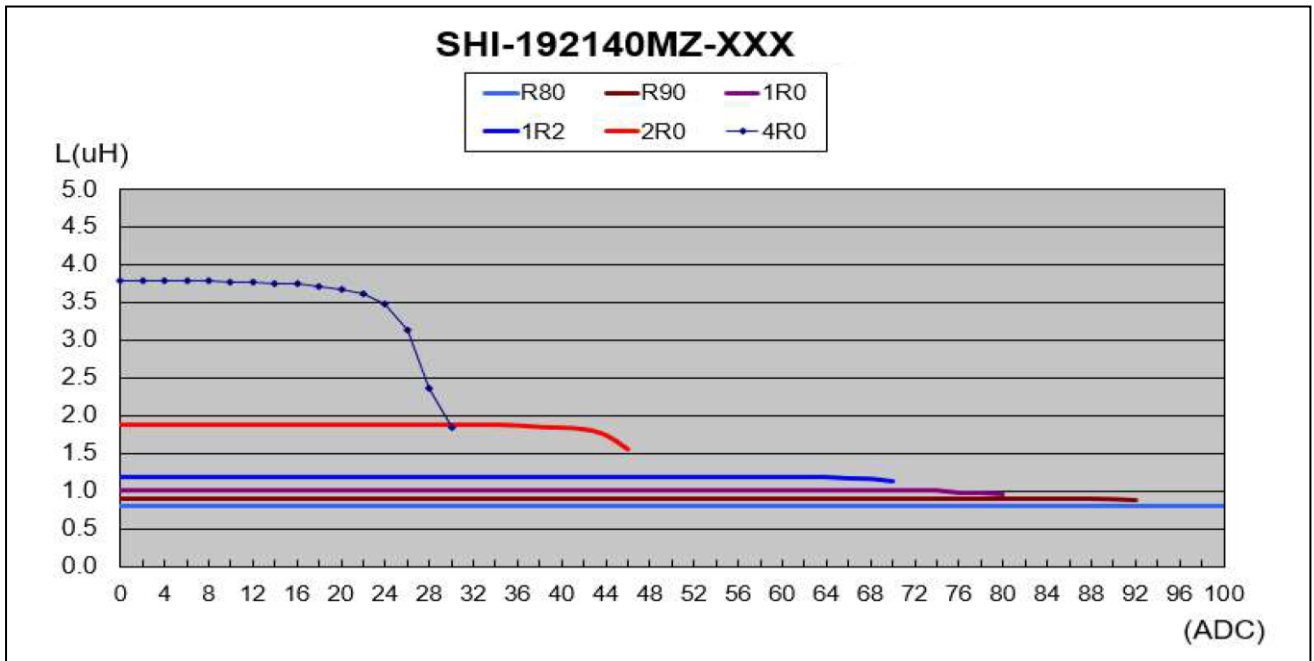
### Physical Dimension : (unit :mm)



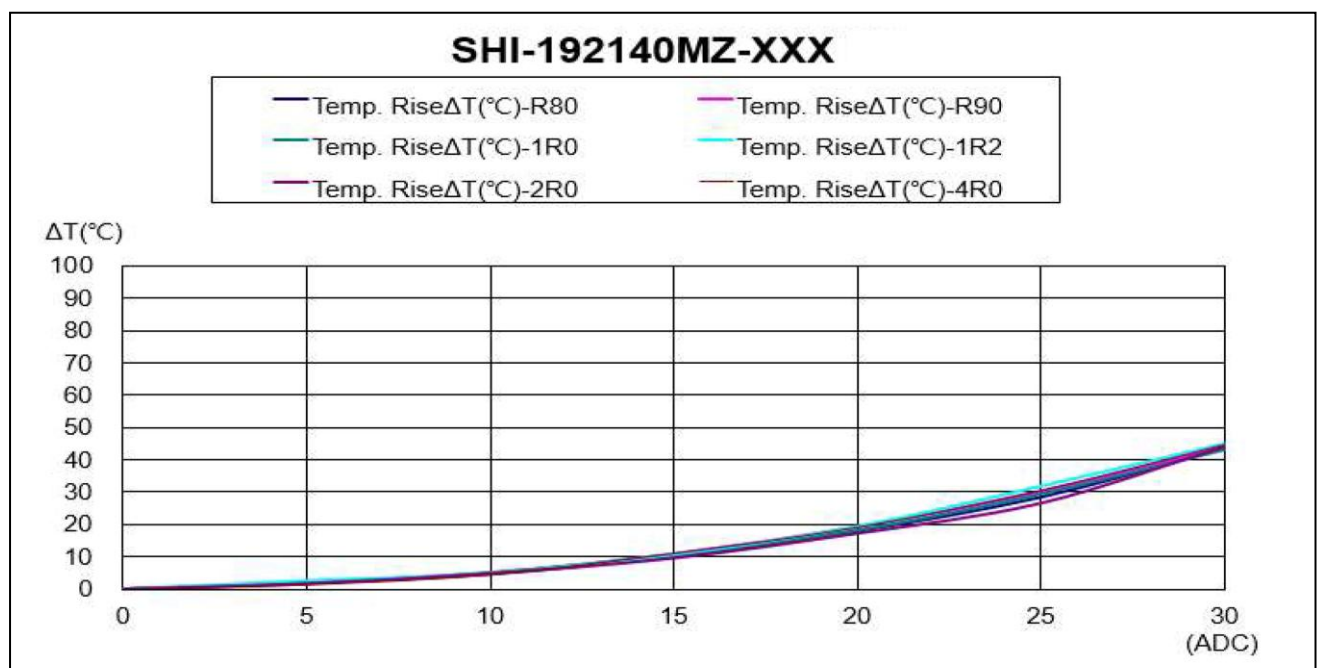
**SCHEMATIC :**



**Inductance vs DC Bias :**



**Temperature Rise vs DC Bias:**



**PACKAGING SPEC:**

1. REEL SIZE & UNITS PER REEL :13", 130PCS.
2. TAPE WIDTH:44mm.
3. REEL WIDTH: 50mm.
4. COMPONENT PITCH:28mm.