

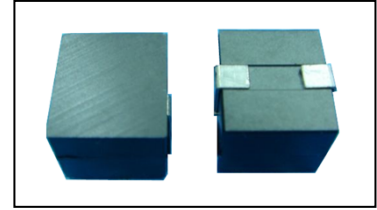


# HIGH CURRENT POWER BEAD INDUCTORS

## MODEL NO. : SHB-114090 SERIES

### Features :

- \* SMD version.
- \* Lowest core loss ( Mn-Zn ferrite ).
- \* Magnetically Shielded.
- \* Extremely low DCR.
- \* Frequency range up to 2 MHz.
- \* Compliant with RoHS and REACH.



### Application :

- \* Servers.
- \* DC/DC converter in power regulation system.

### Electrical Specification :

PART NO	INDUCTANCE @0 ADC (nH) $\pm 20\%$	DCR (m $\Omega$ ) $\pm 10\%$	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC) (NOTE 2)	SATURATION CURRENT (ADC) (NOTE 3)	TEMPERATURE RISE CURRENT (ADC) (NOTE 4)
SHB-114090-R22-2	225	0.51	225	35	65	35
SHB-114090-R27-2	270	0.51	280	35	50	35
SHB-114090-R32-2	325	0.51	325	35	45	35
SHB-114090-R47-2	470	0.51	350	30	30	35

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

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

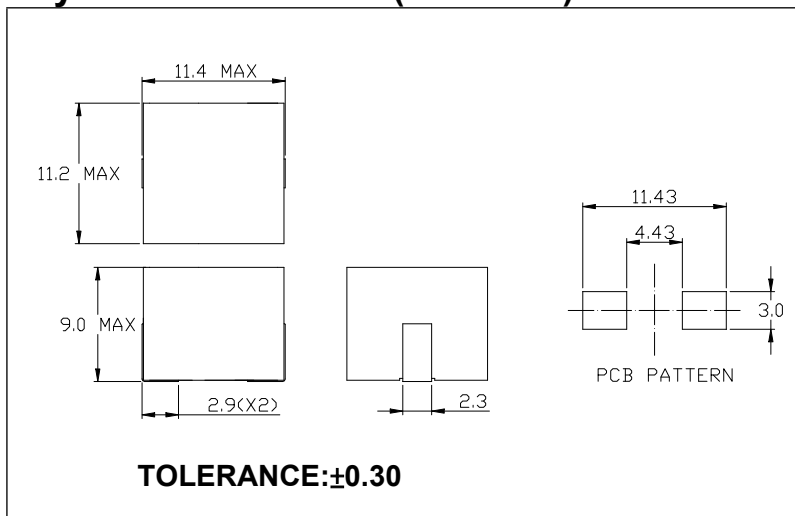
NOTE(3) : The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

NOTE(4) :  $\Delta T = 40^\circ\text{C}$  approximately under the temperature rise current.

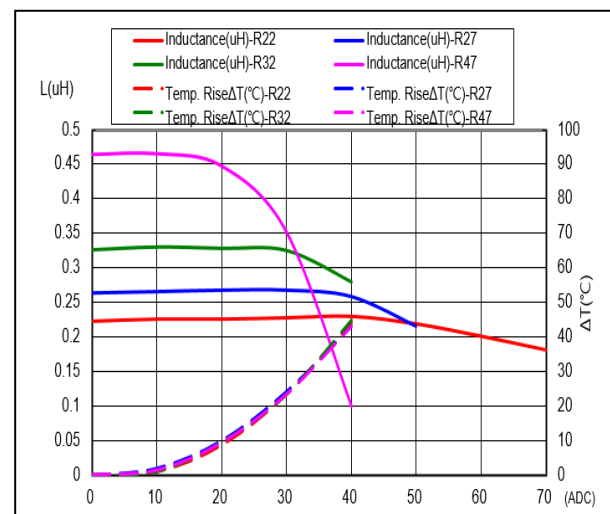
NOTE(5) : Operating temperature range:  $-40^\circ\text{C} \sim +125^\circ\text{C}$ .

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)



### Inductance / $\Delta T$ vs DC Bias:



### PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL : 13", 250PCS.
2. TAPE WIDTH: 24mm.
3. REEL WIDTH: 29.5mm.
4. COMPONENT PITCH: 24mm.