

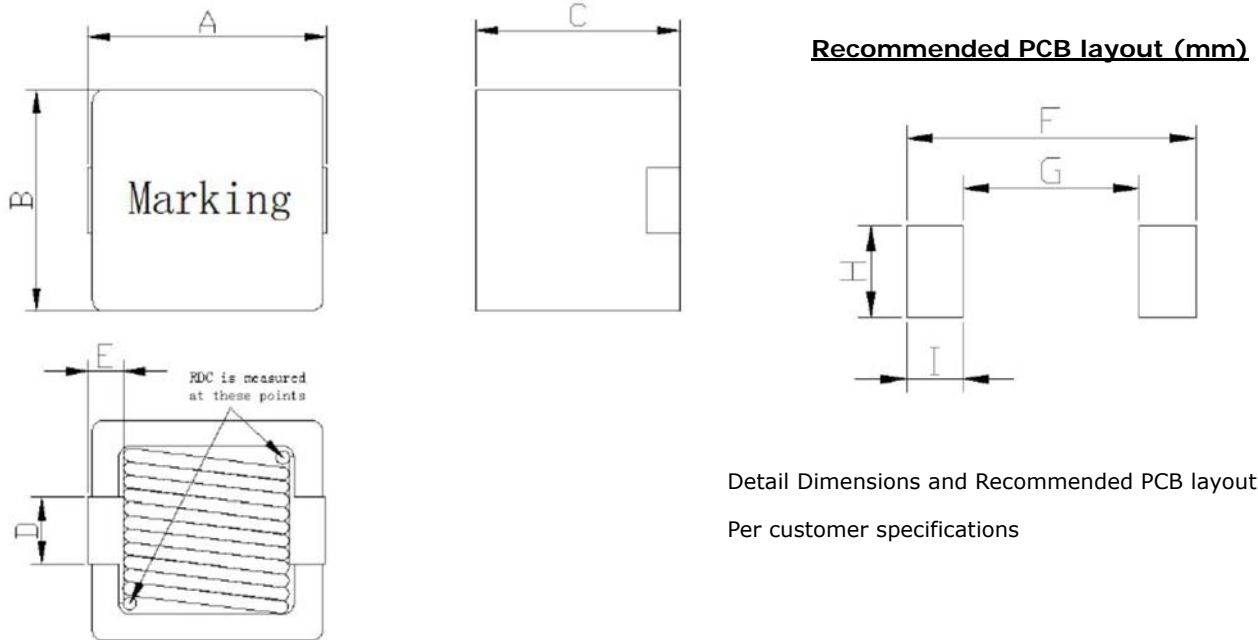
**FEATURES**

- Low profile
- Low DCR
- Large Current Adaptable
- High Frequency(up to 30MHz)

**APPLICATIONS**

- Laptop Computer / Notebook Computer
- Graphic Card/ VGA Module
- DC/DC converter or VRM applications
- Thin type on-board power supply module for exchanger
- Inductor for general purpose use

**CONFIGLRATIONS & DIMENSIONS ( unit in mm )**



A	B	C	D	E	F	G	H	I
10.9±0.4	10.0±0.4	9.3±0.4	3.0±0.2	1.6±0.2	11.3	6.9Typ.	3.6Typ.	2.2Typ.

**Electrical Characteristics :**

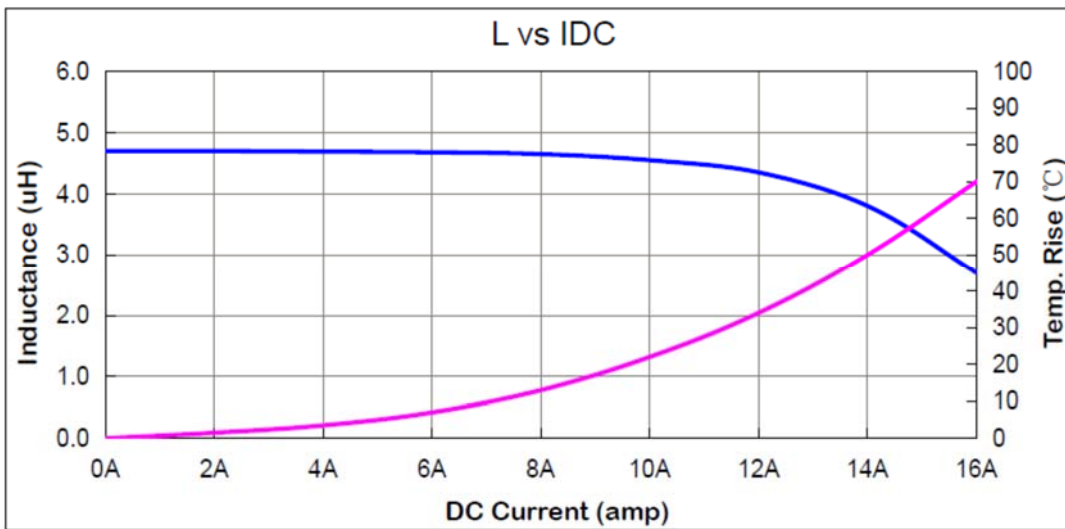
NO.	Properties	Test conditions	Value	Unit	Tol
1	Inductance(L)	100 KHz/ 1 V	4.7	μH	±20%
2	Rated current(Isat)	Lower inductance by -30%	15	A	max
3	Rated current(Ir)	ΔT = 50 K	13	A	max
4	DC Resistance(Rdc)	/	10.34	mΩ	max
5	Self Resonant Frequency	fres	45	MHz	typ.

**Measuring Instrument :**

L:GF200BL DCR:TH2511

- It is recommended that the temperature of the part does not exceed 100°C under worst case operating conditions.
- The Part temperature (ambient +  $\Delta T$ ) should not exceed 125°C under worst case operating conditions.
- Storage temperature (on tape & reel): -20°C to +40°C; 70% RH Max.
- Test conditions of Electrical Properties: 20°C, 33% RH
- Shelf Life: 1 year from date of manufacture. Recommended to be used within 1 year after receiving. In case of exceeded, solderability shall be check before use.
- Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all effect the part temperature. Part temperature should be verified in the end application.

**PERFORMANCE CURVES:**



Frequency(KHZ)	1	10	20	50	100	200	1000	2000	5000	10000	20000	30000	35000	40000	45000
Inductance(uH)	4.81	4.79	4.73	4.69	4.65	4.63	4.56	4.54	4.53	4.61	4.89	5.73	5.62	5.43	0.23

