



# **GLMC Series Licalloy™**

## **Power Inductor**

### **Technical Data Sheet**

## Specification

### Liquialloy™ Power Inductor GLMC Series

#### Features

- 7.4X6.5mm square and 3.0mm height
- Liquialloy ; Low core loss material for highly efficient power supplies
- Excellent low heat generating characteristics due to low DCR (Direct Current Resistance)
- Metal composite structure provides compact and support high current
- Operating Temperature : -20 ~ +125°C (Including self temperature rise)
- RoHS compliant

#### Application

- For use in DC/DC converters in notebook PCs and servers, etc.
- POL (Point of Load) power supplies



Outer Appearance of Liquialloy™ Inductor

ALPS Part No.	Inductance ( $\mu$ H) at 100kHz	DC Resistance* (m $\Omega$ )	Rated Current	
			Saturation Current $\Delta L/L=30\%$ (A) Max. (Typ.)	Heat Rating Current $\Delta T=40^{\circ}\text{C}$ (A) Max. (Typ.)
GLMCR4703A	0.47 $\pm$ 20%	3.1 $\pm$ 10%	13.9 (16.2)	15.4 (16.8)
GLMC1R003A	1.0 $\pm$ 20%	5.8 $\pm$ 10%	10.0 (11.7)	10.6 (11.5)
GLMC1R503A	1.5 $\pm$ 20%	9.1 $\pm$ 10%	8.4 (9.8)	8.8 (9.5)
GLMC2R203A	2.2 $\pm$ 20%	12.4 $\pm$ 10%	7.1 (8.3)	7.5 (8.2)
GLMC3R303A	3.3 $\pm$ 20%	20.0 $\pm$ 10%	6.0 (7.0)	6.2 (6.6)
GLMC4R703A	4.7 $\pm$ 20%	26.9 $\pm$ 10%	5.1 (6.0)	5.1 (5.6)

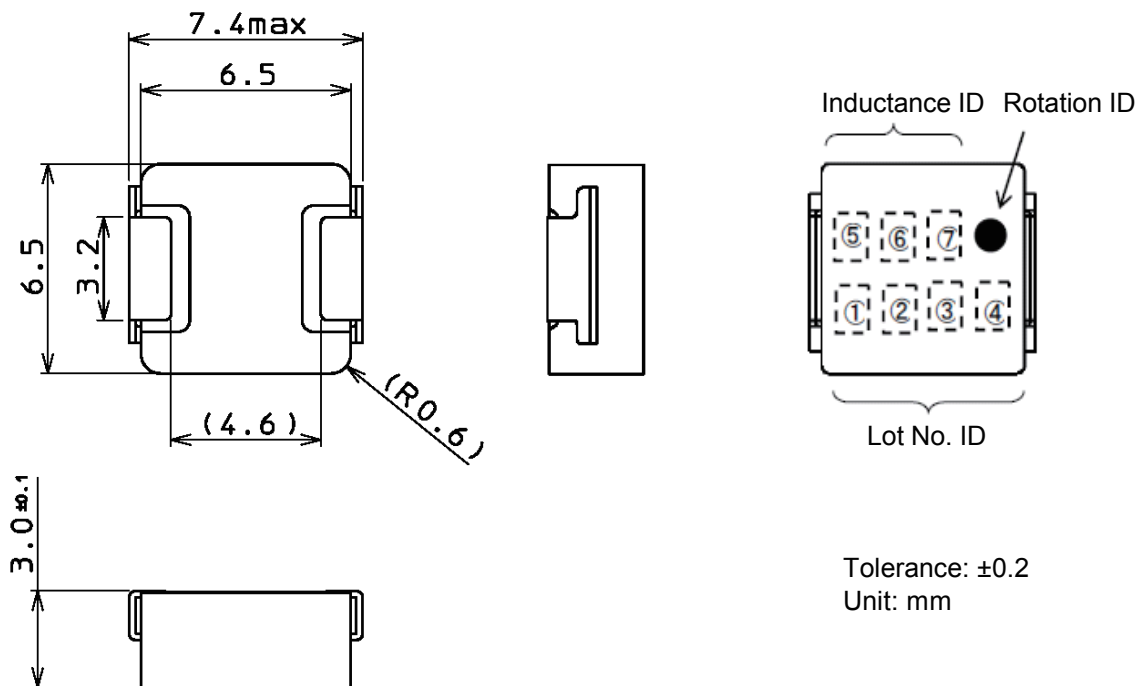
\* : measured under 20°C.



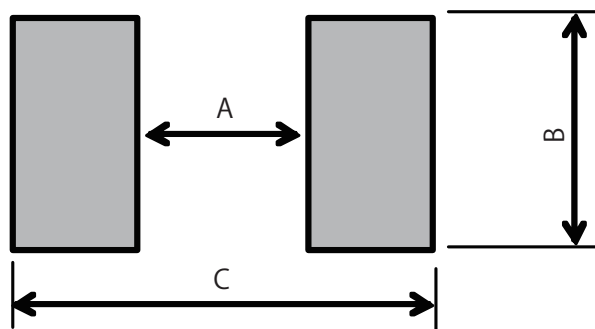
## Specification

# Liquialloy™ Power Inductor GLMC Series

### Outline Dimensions and Schematics



### Recommend Land Pattern Dimensions

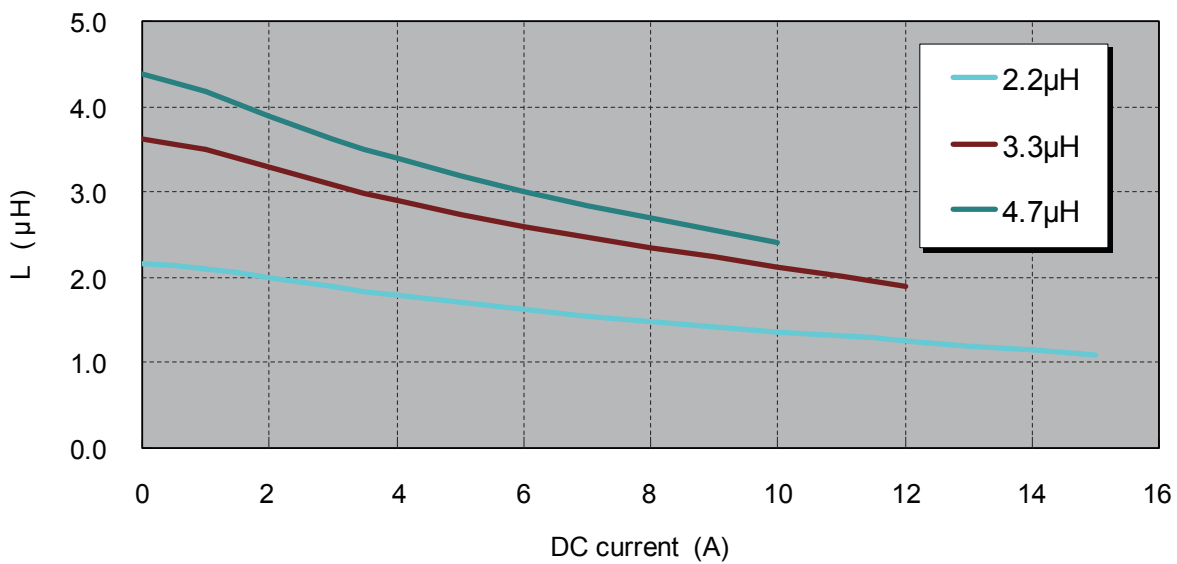
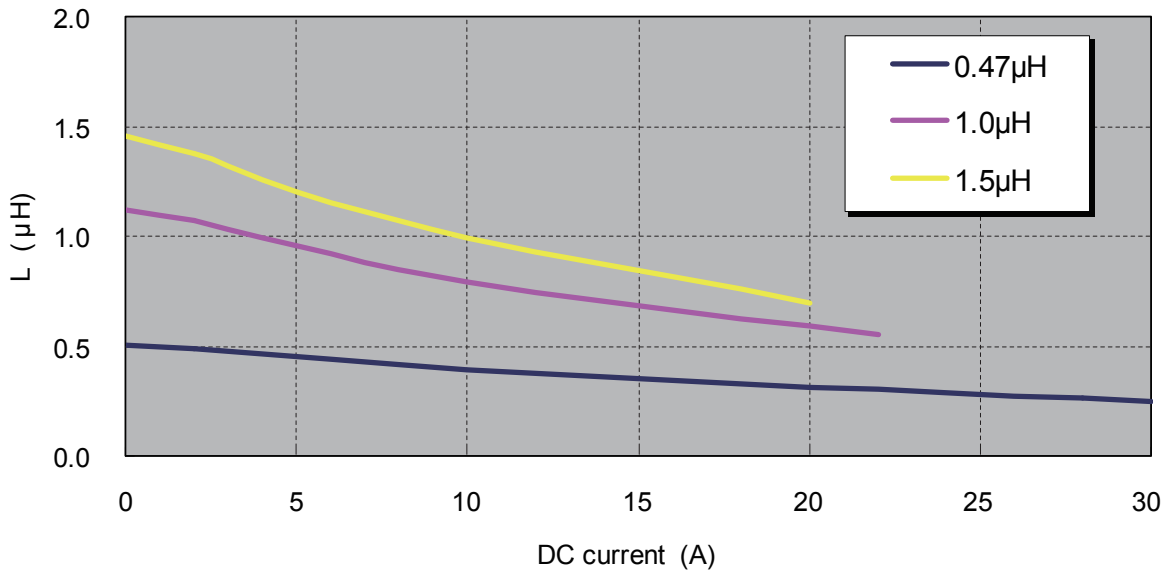


A	4
B	3.5
C	8

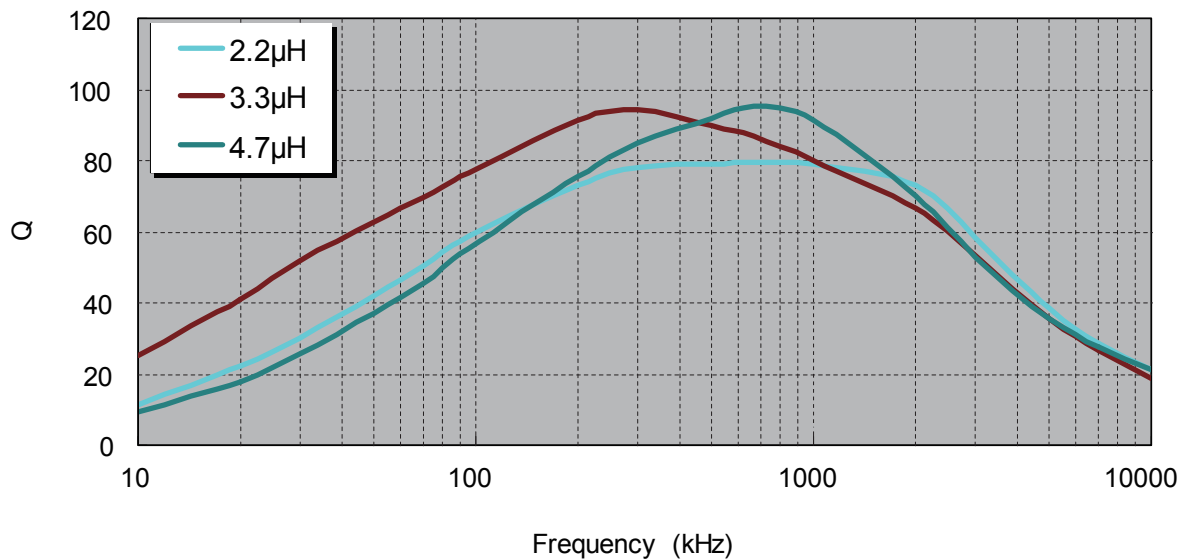
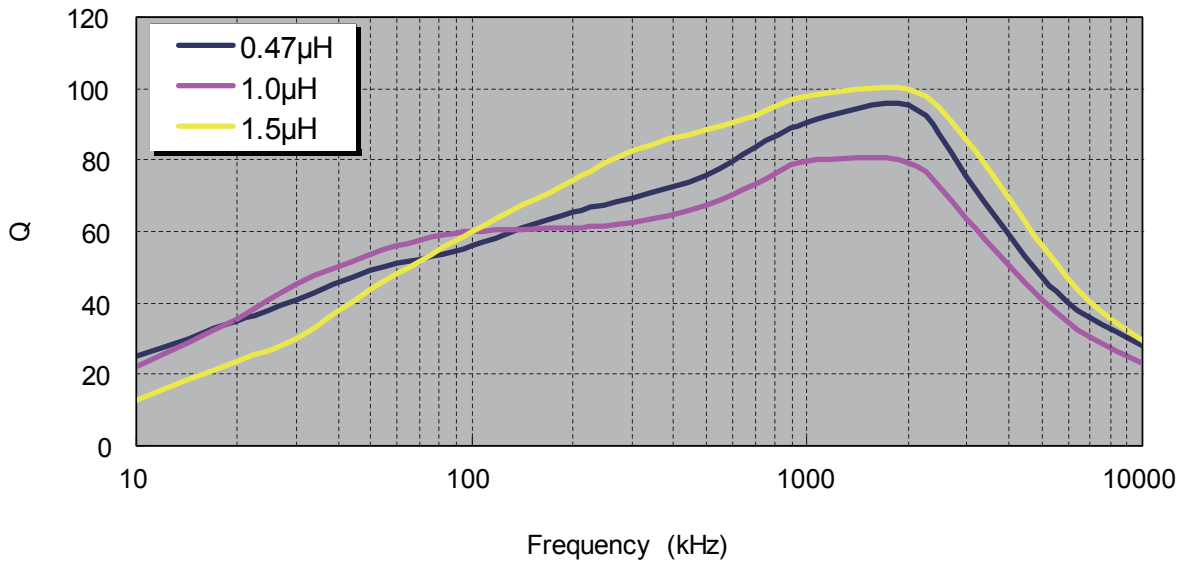
Unit: mm



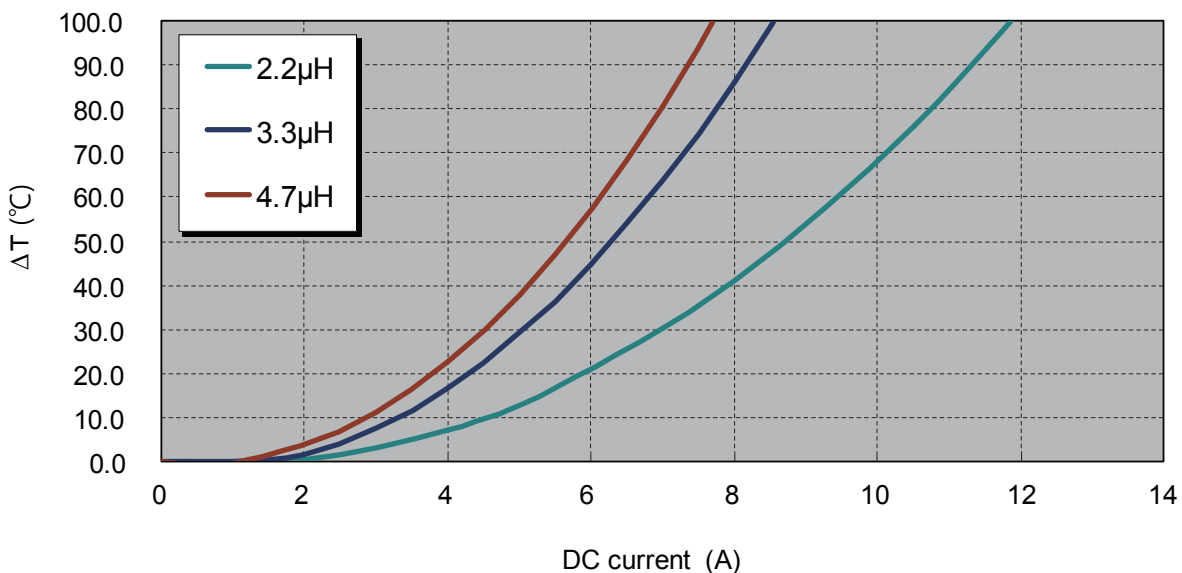
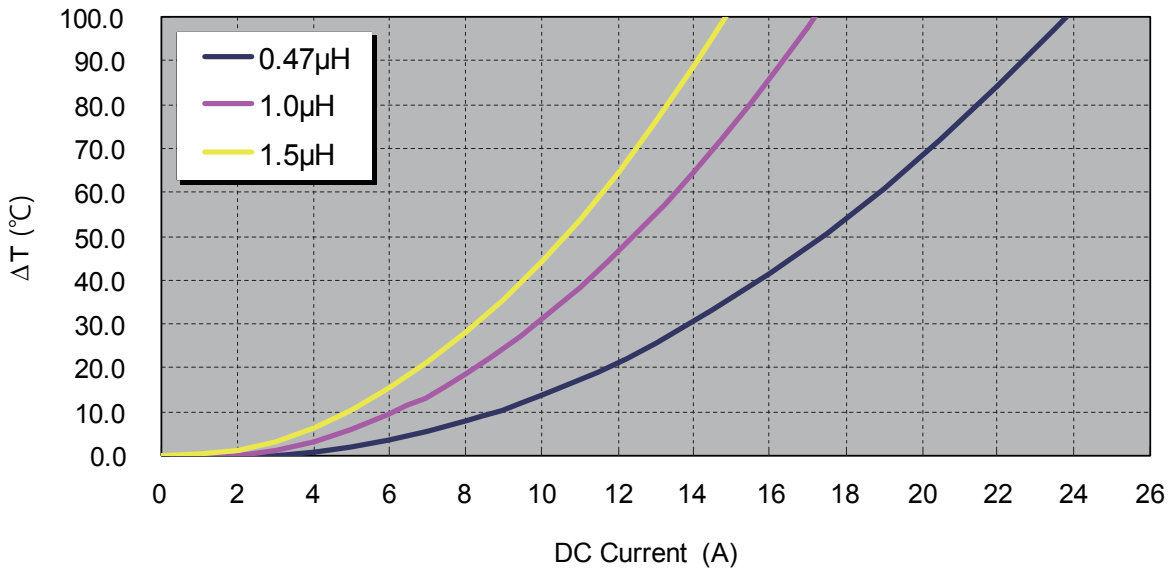
## DC bias characteristics



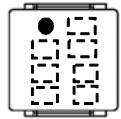
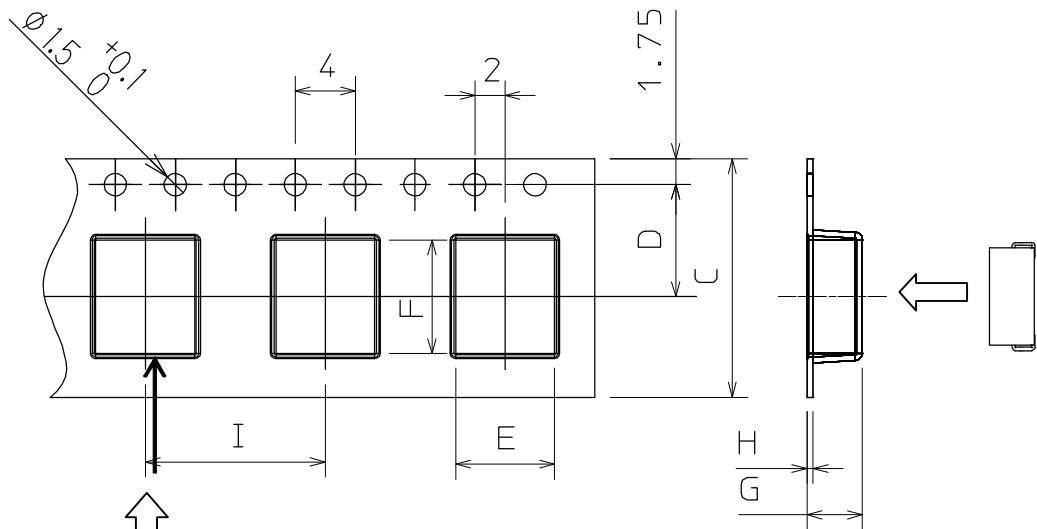
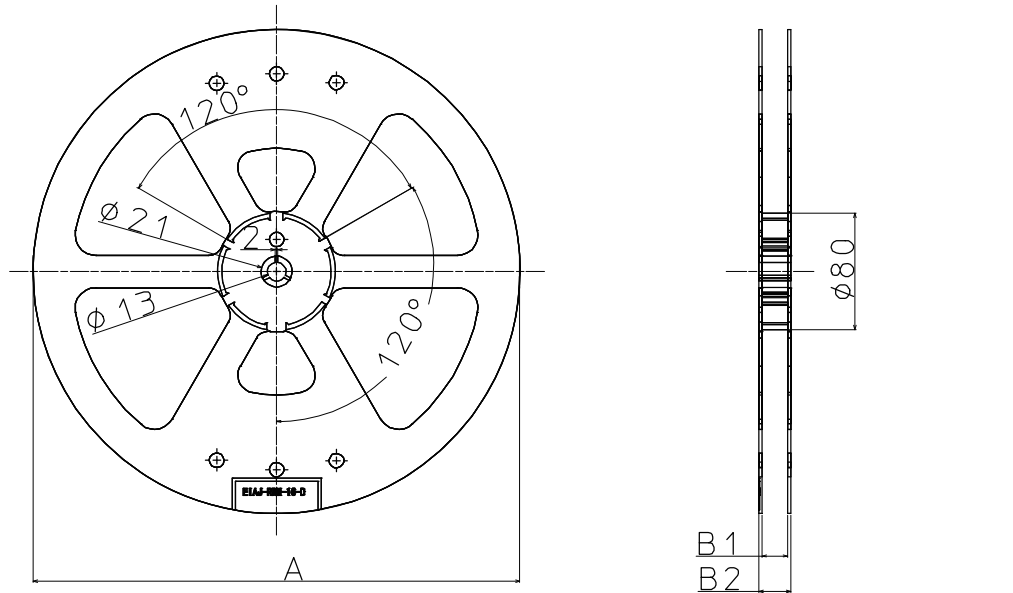
## Q-f characteristics



## Temperature rise ( $\Delta T$ ) dependence of the Liquialloy™ Power Inductors on Load Current



## Packing



Unreeing direction

Unit: mm

	Reel Size			Tape Size						QNT	
	A	B1	B2	C	D	E	F	G	H		I
GLMC/GLMH	$\phi 330$	17.5	21.5	16	7.5	6.8	7.8	3.3	0.4	12	1000
GLMD	$\phi 330$	25.4	29.4	24	11.5	10.5	12.1	4.3	0.4	16	1000



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3. The external appearance, functions and other specifications herein may be discontinued without prior notice.

### ■ Inquiries about Products

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