

## High Current Power Inductors / AMPI0530ED Series

### Features

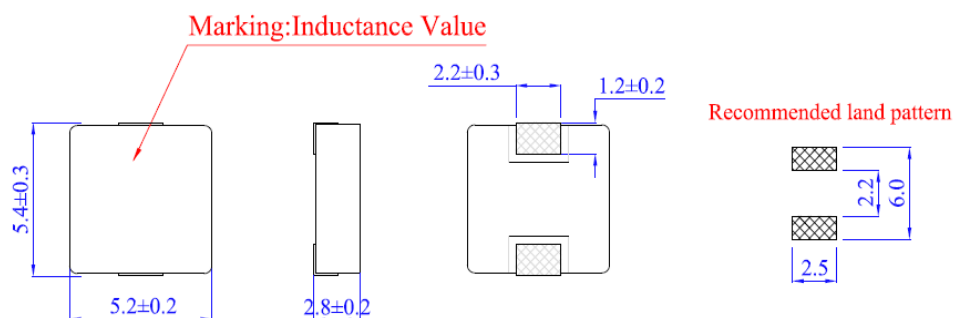
- High performance realized by metal core.
- Compact and low profile with max.3.0mm.
- Low loss realized with low DCR and high Isat.
- Applicable at high frequency up to 750 KHz.
- RoHS compliant.



### Applications

- DC/DC converter for CPU in Notebook PC.
- Thin type on-board power supply module for exchange VRM for server.

### ● Shape & Dimensions



## ◆ AMPI0530ED Series Specification :

Part Number	Inductance ( uH )	Test Freq. ( KHz )	DCR ( mΩ ) Max.	Saturation Current ( A ) Typ.	Temp. Rise Current ( A ) Typ.
AMPI0530EDR20□T	0.20	100	3.9	17.0	14.0
AMPI0530EDR47□T	0.47	100	8.0	15.0	11.0
AMPI0530EDR68□T	0.68	100	12.0	13.0	9.0
AMPI0530ED1R0□T	1.0	100	14.0	11.0	8.1
AMPI0530ED1R2□T	1.2	100	16.0	11.0	8.1
AMPI0530ED1R5□T	1.5	100	25.0	10.0	7.2
AMPI0530ED2R2□T	2.2	100	29.0	7.5	5.5
AMPI0530ED3R3□T	3.3	100	38.0	6.0	4.8
AMPI0530ED4R7□T	4.7	100	60.0	5.0	4.5
AMPI0530ED6R8□T	6.8	100	90.0	4.0	3.5
AMPI0530ED100□T	10	100	125.0	3.5	2.5

### NOTE :

\* The operating temperature range is -40°C to +125°C(Including self-temperature rise).

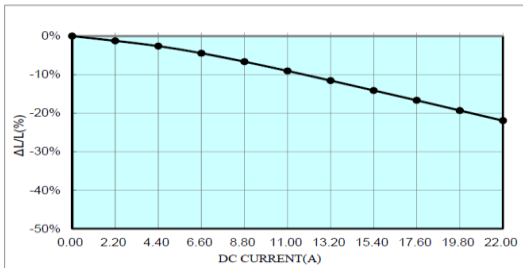
\* □ Tolerance M : ±20%

\*Isat:For Inductance drop approximately 30% from its value without current.

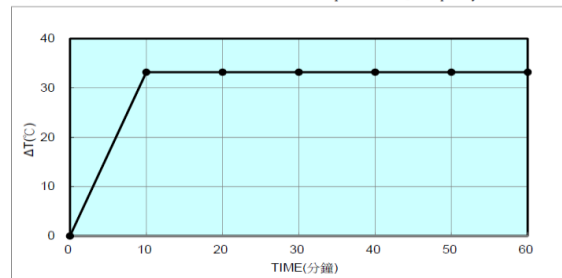
\*Irms:Typical Heat Rating D.C current would cause an approximately  $\Delta T$  of 40°C.

### AMPI0530EDR20MT

※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

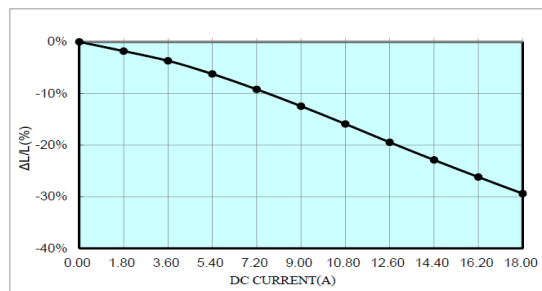


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

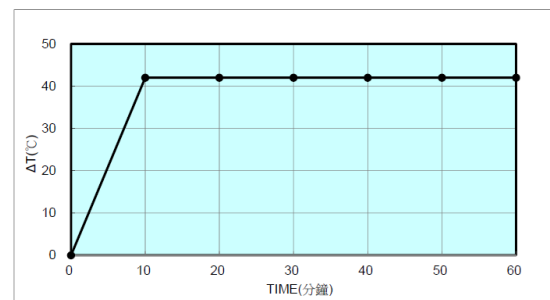


### AMPI0530EDR47MT

※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

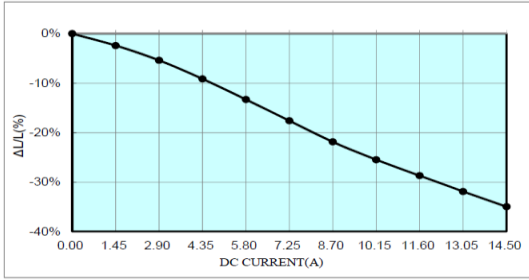


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

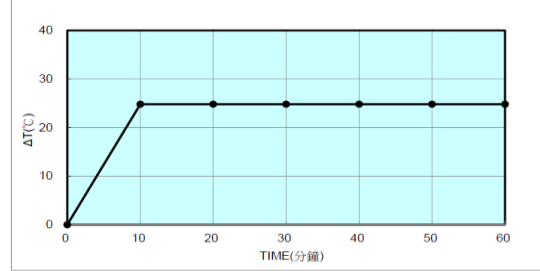


## AMPI0530EDR68MT

※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

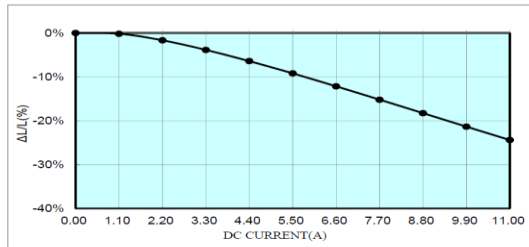


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

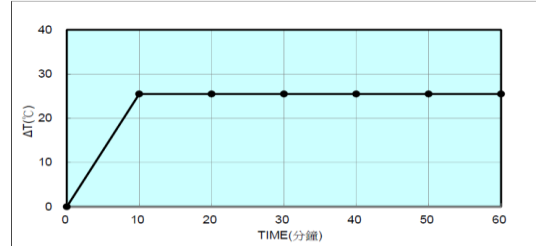


## AMPI0530ED1R0MT

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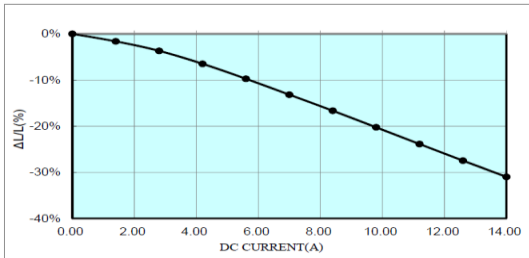


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

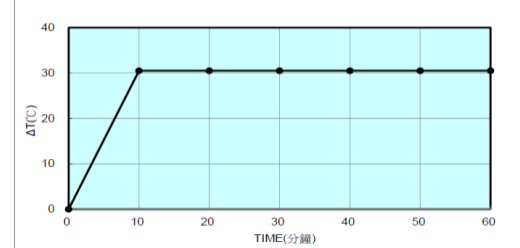


## AMPI0530ED1R2MT

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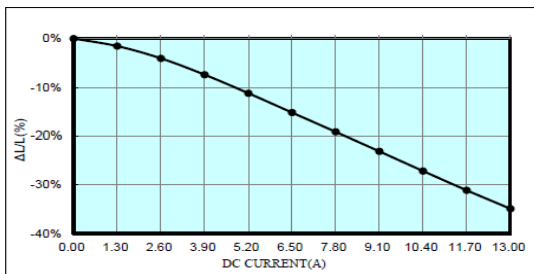


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

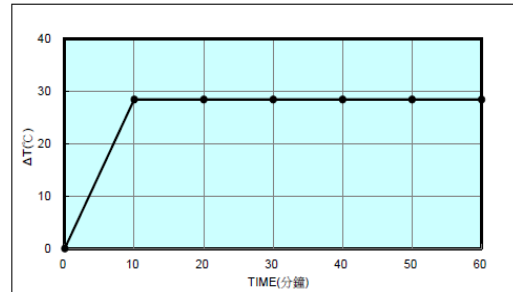


## AMPI0530ED1R5MT

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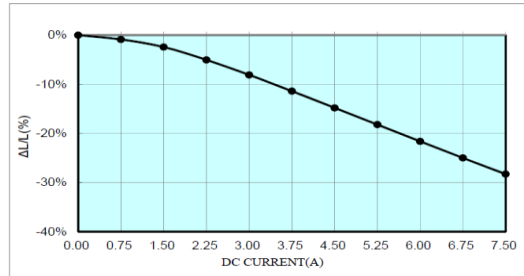


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

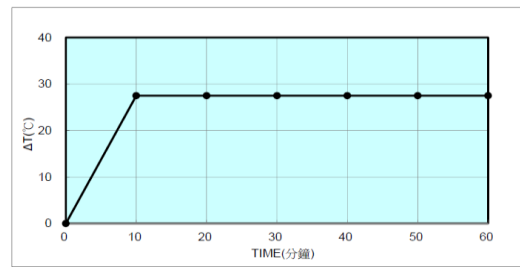


## AMPI0530ED2R2MT

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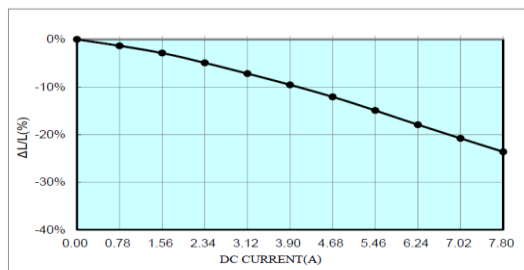


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

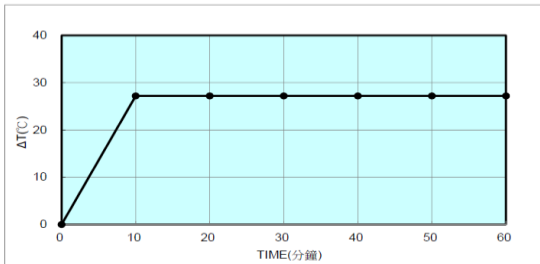


## AMPI0530ED3R3MT

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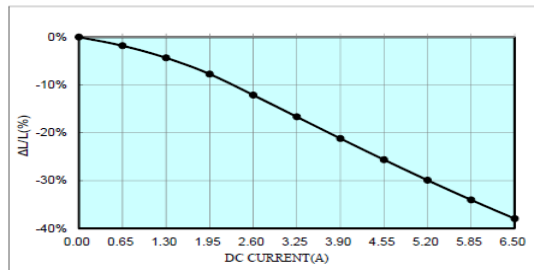


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

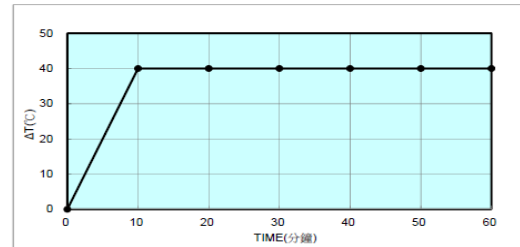


## AMPI0530ED4R7MT

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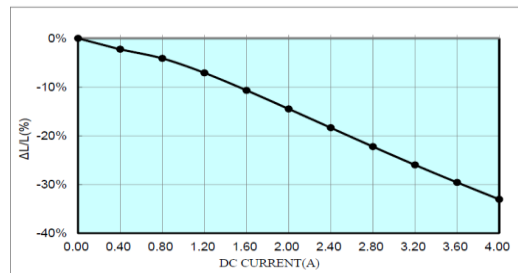


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

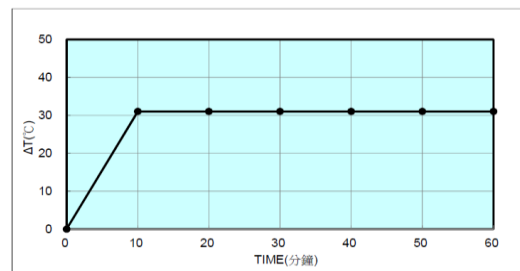


## AMPI0530ED6R8MT

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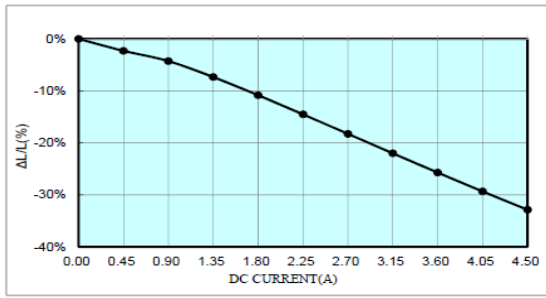


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V



# AMPI0530ED100MT

※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V



※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

