

## High Current Power Inductors / AMPI0420ED Series

### Features

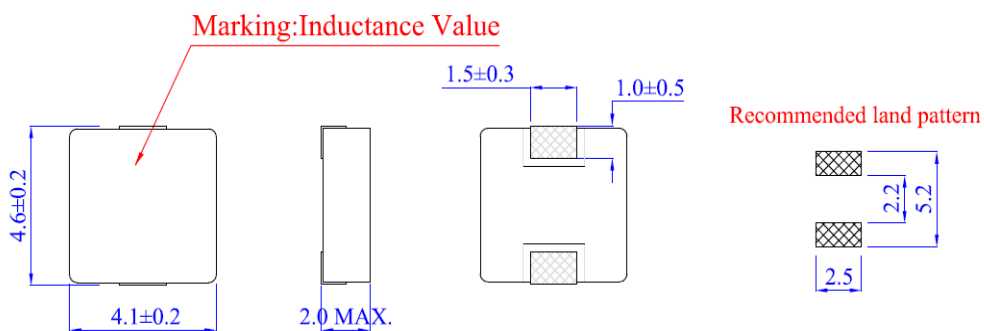
- High performance realized by metal core.
- Compact and low profile with max.3.0mm.
- Low loss realized with low DCR and high Isat.
- Applicable at high frequency up to 750 KHz.
- RoHS compliant.



### Applications

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

### ● Shape & Dimensions



## ◆ AMPI0420ED Series Specification :

Part Number	Inductance ( uH )	Test Freq. ( KHz )	DCR ( mΩ ) Max.	Saturation Current ( A ) Typ.	Temp. Rise Current ( A ) Typ.
AMPI0420EDR10□T	0.10	100	4.0	27.0	13.0
AMPI0420EDR22□T	0.22	100	6.6	21.0	9.5
AMPI0420EDR47□T	0.47	100	14.0	11.0	7.5
AMPI0420EDR56□T	0.56	100	16.0	11.0	7.0
AMPI0420EDR68□T	0.68	100	18.0	8.6	7.0
AMPI0420ED1R0□T	1.0	100	27.0	7.0	4.5
AMPI0420ED1R2□T	1.2	100	27.0	6.5	4.5
AMPI0420ED1R5□T	1.5	100	46.0	6.0	4.0
AMPI0420ED2R2□T	2.2	100	58.0	5.0	3.0
AMPI0420ED3R3□T	3.3	100	87.0	4.0	2.5
AMPI0420ED4R7□T	4.7	100	105.0	3.0	2.2
AMPI0420ED6R8□T	6.8	100	135.0	3.0	2.0
AMPI0420ED100□T	10	100	258.0	2.0	1.6

### NOTE :

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

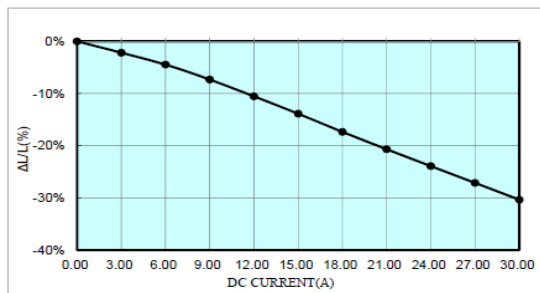
\* □ Tolerance M : ±20%

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

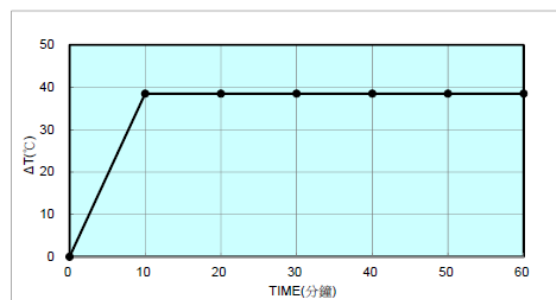
\*Irms:Typical Heat Rating D.C current would cause an approximately  $\Delta T$  of 40°C.

### AMPI0420EDR10MT

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

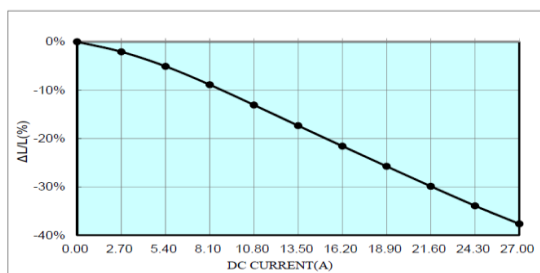


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

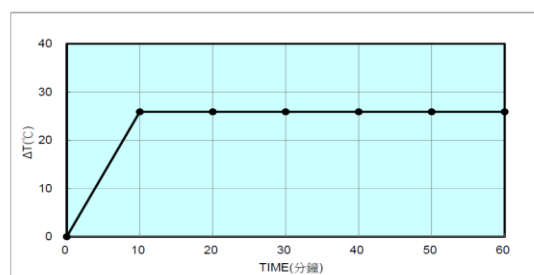


### AMPI0420EDR22MT

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

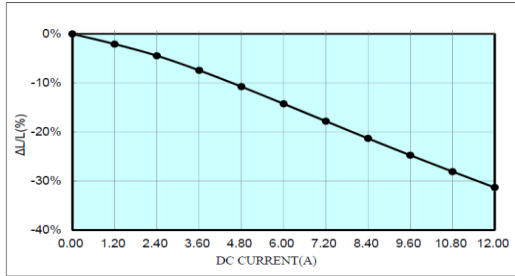


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

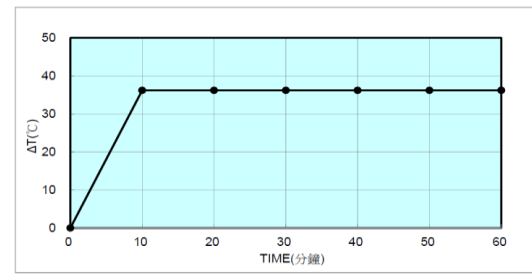


## AMPI0420EDR47MT

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

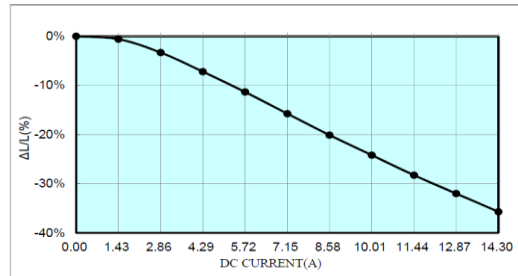


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

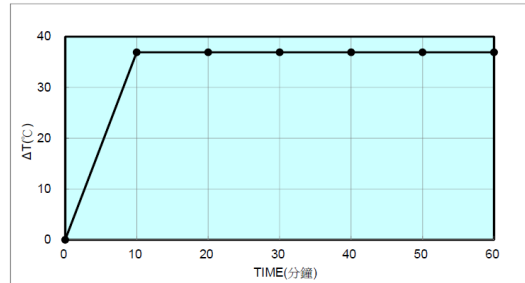


## AMPI0420EDR56MT

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

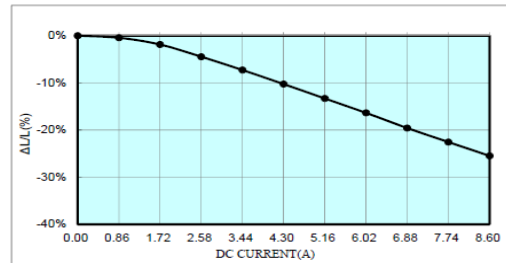


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

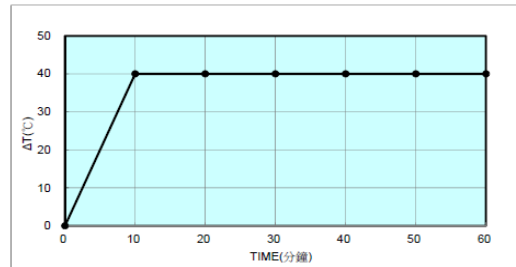


## AMPI0420EDR68MT

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

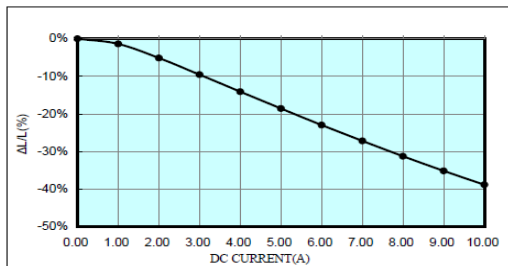


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

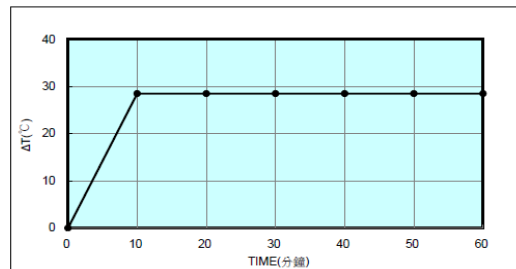


## AMPI0420ED1R0MT

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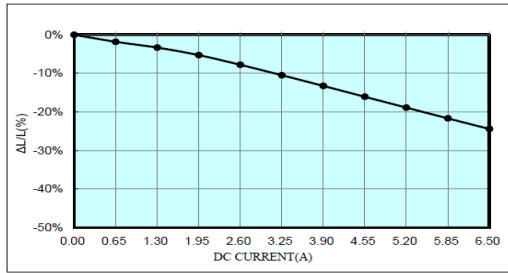


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

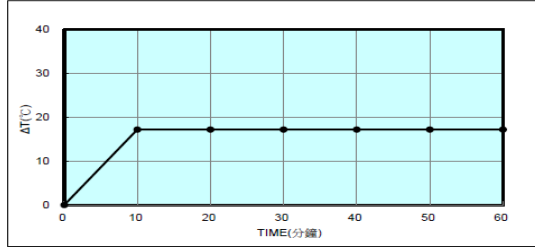


## AMPI0420ED1R2MT

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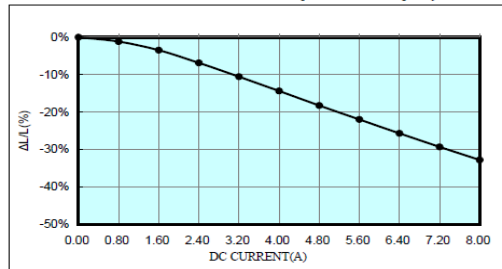


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

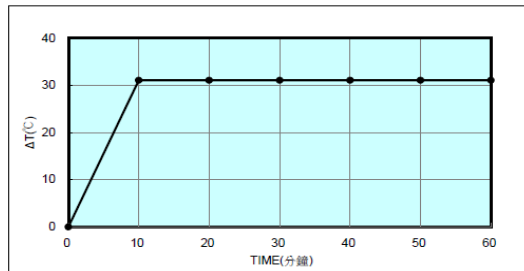


## AMPI0420ED1R5MT

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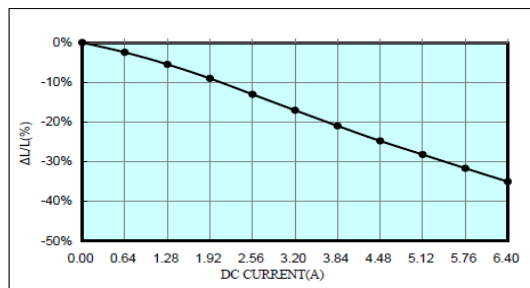


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

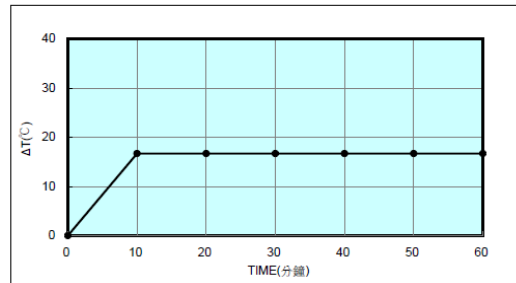


## AMPI0420ED2R2MT

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

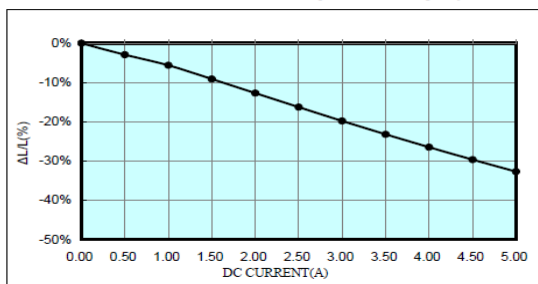


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

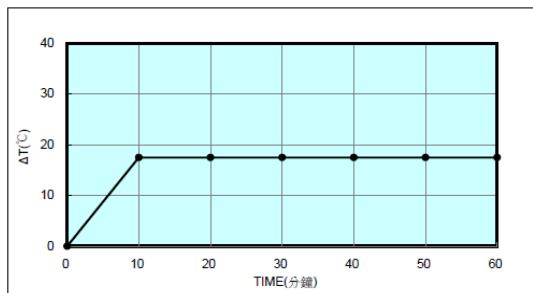


## AMPI0420ED3R3MT

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

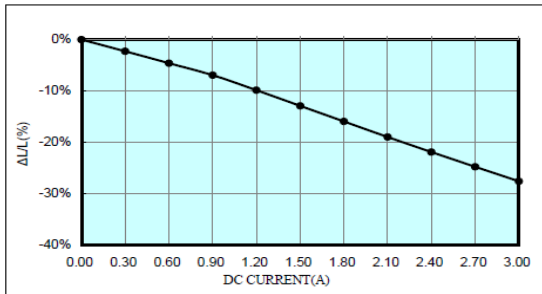


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

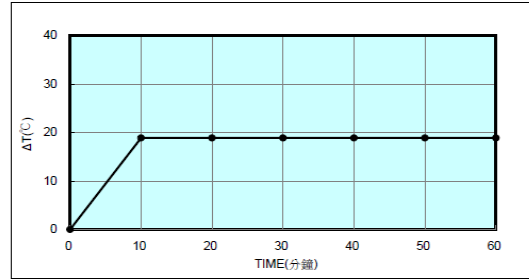


## AMPI0420ED4R7MT

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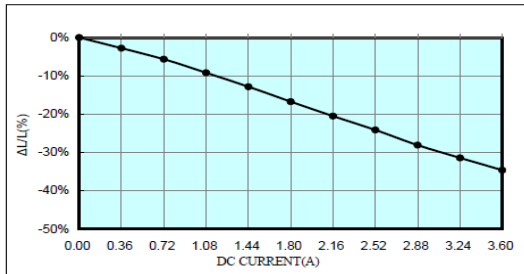


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V

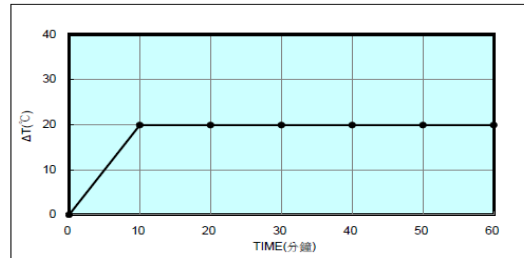


## AMPI0420ED6R8MT

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

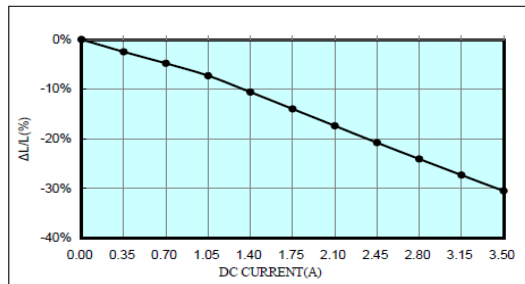


※DC bias current characteristics in the ambient temperature 25°C Frequency 100KHz/1V



## AMPI0420ED100MT

※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

