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# **High Current Power Inductors / AMPI\_ECH Series**

#### **Features**

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

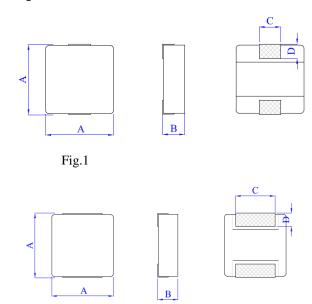
## **Applications**

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



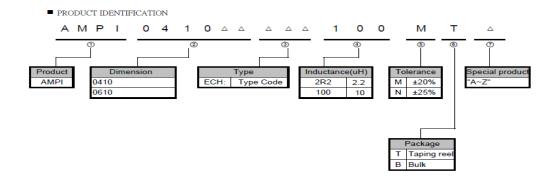
 $_{\rm H}$ 

## • Shape & Dimensions





TYPE	Figure	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMPI0410ECH	1	4.0±0.2	0.8±0.2	1.8±0.2	0.8±0.2	2.0	1.1	2.2
AMPI0610ECH	2	6.1±0.3	0.8±0.2	4.0±0.3	1.75±0.3	4.5	2.35	2.8



# **◆ AMPI0410ECH Series Specification**:

Part Number	Inductance	Test Freq.	DCR Saturation Current Temp. Rise C		Temp. Rise Current
rart Number	(uH)	(KHz)	(mΩ) Max.	(A) Typ.	(A) Typ.
AMPI0410ECH2R2\subseteq T	2.2	100	100.0	3.5	3.0
AMPI0410ECH4R7□T	4.7	100	160.0	2.6	2.3
AMPI0410ECH100 T	10	100	285±20%	1.6	1.4

### **NOTE**:

- \* The operating temperature range is  $-40^{\circ}$ C to  $+125^{\circ}$ 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  $\triangle T$  of  $40^{\circ}$ C.

## **♦** AMPI0610ECH Series Specification:

Part Number	Inductance	Test Freq.	DCR	<b>Saturation Current</b>	Temp. Rise Current
i ai t Number	(uH)	(KHz)	(mΩ) Max.	(A) Typ.	(A) Typ.
AMPI0610ECH6R8□T	6.8	100	197.0	2.5	2.0
AMPI0610ECH100□T	10	100	310.0	2.1	1.6

### **NOTE**:

- \* The operating temperature range is  $-40^{\circ}$ C to  $+125^{\circ}$ 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  $\triangle T$  of  $40^{\circ}$ C.