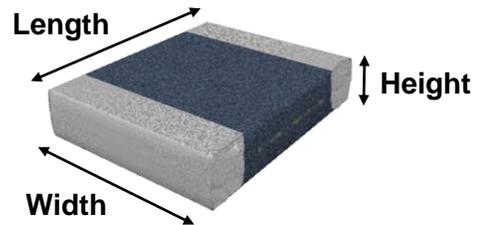


# TDK Thin Film Power inductor TFF160805ALC series

## FEATURES

- The package size of TFF1608 is L 1.6mm x W 0.8mm.
- The thickness of this product is 0.55mm, and it is very thin compared with other same kind of products.
- This product consists of original fine copper pattern with micro-processing technology .
- The coil pattern is coated with metal magnetic material.
- Superior DC-Bias characteristics .
- This product corresponds to ROHS.

## PRODUCTS SHAPE



## APPLICATIONS

- Generic use for DC/DC Converter of portable device.
- Used for Smart phone, Feature phone, HDD, SSD, etc.

## DIMENSIONS

	Length ±0.2 [mm]	Width ±0.2 [mm]	Height Max. [mm]	Terminal Ref. [mm]
TFF160805ALC	1.6	0.8	0.55	0.3

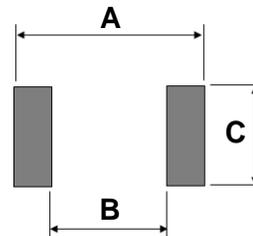
## PRODUCT IDENTIFICATIONS

### TFF 1608 05 ALC- 1R0 M T AA

(1) (2) (3) (4) (5) (6) (7) (8)

- (1) Series name
- (2) Product size ( Length , Width )
- (3) Product height
- (4) Product identification
- (5) Inductance value (R10 : 0.10μH )
- (6) Inductance tolerance ( M : ±20% )
- (7) Packing style ( T : Taping )
- (8) Control mark

## RECOMMENDED RAND PATTERN



	A [mm]	B [mm]	C [mm]
TFF160805ALC	2.0	0.8	0.8

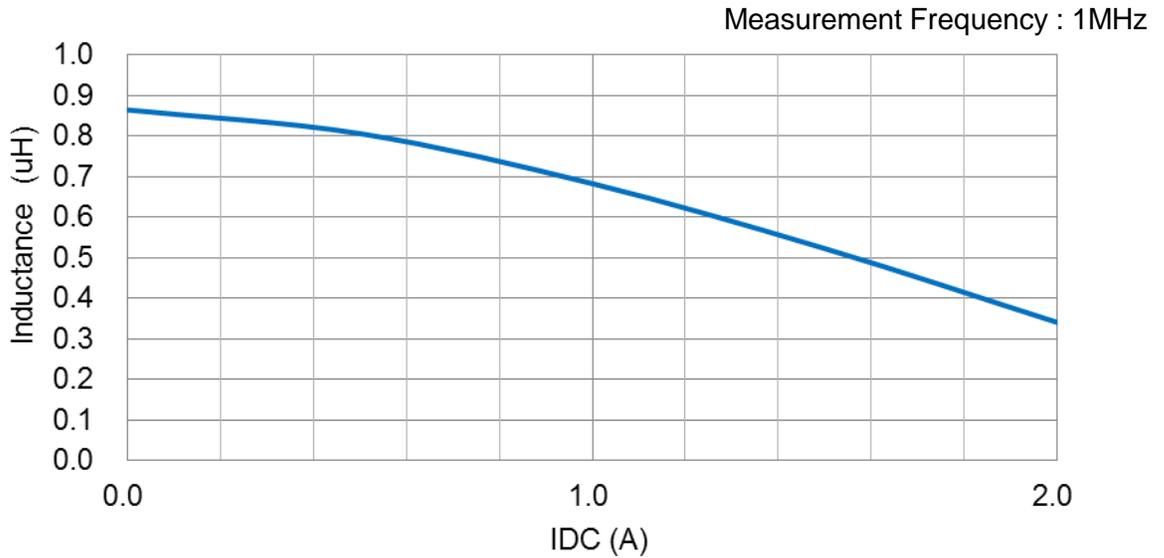
## ELECTRICAL CHARACTERISTICS

Identification	Inductance [μH]	Test frequency [MHz]	DC Resistance [mOhm]	Rated current	
				Isat [A]	Itemp [A]
			Max	Max.	Max
TFF160805ALC-1R0MTAA	1.0 +/-20%	1.0	250	1.0	1.1

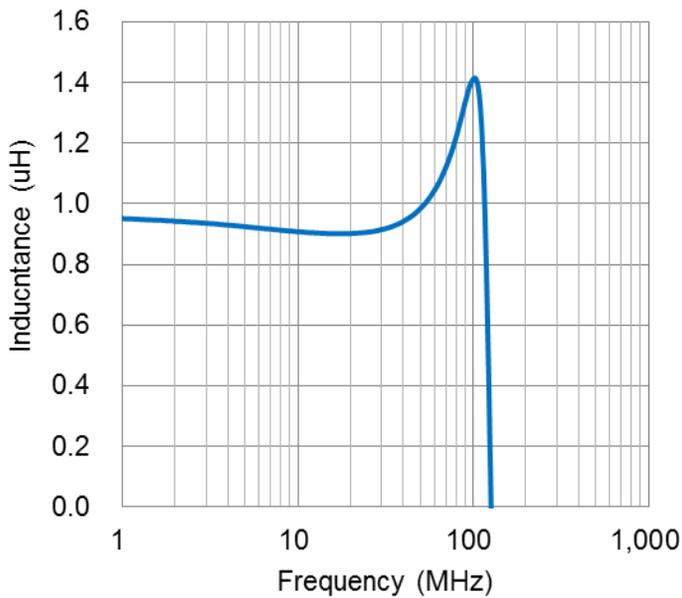
Isat : Depend on the Inductance Saturation. ( -30% Reduction from Initial L Value/ Test Freq. 1MHz )  
 Itemp : Depend on the Self Temperature Rise. ( 40deg.C Typ. Thermal Resistance of test board : 50deg.C/W )

**TDK Thin Film Power inductor TFF160805ALC series**

**INDUCTANCE vs. DC BIAS**



**INDUCTANCE vs. FREQUENCY**



**RESISTANCE vs. FREQUENCY**

