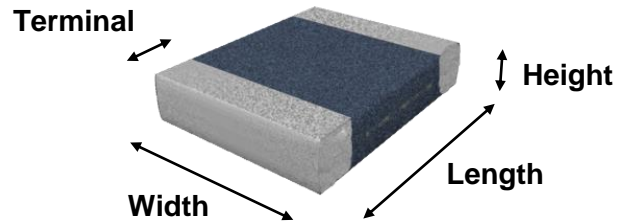


**TDK Thin Film Power inductor TFM201208ALC-TAA series**

**FEATURES**

- The thickness of this product is 0.8mm,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]
TFM201208	2.0	1.25	0.8	0.5

**OPERATING TEMPERATURE RANGE**

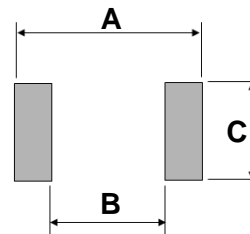
-40 ~ 125 deg.C  
(Include self temperature rise 40 deg.C)

**PRODUCT IDENTIFICATIONS**

**TFM 2012 08 ALC – R47 M TAA**  
(1) (2) (3) (4) (5) (6) (7)

- (1) Series name
- (2) Product size ( Length , Width )
- (3) Product height
- (4) Product identification
- (5) Inductance value
- (6) Inductance tolerance ( M : ±20% )
- (7) Control mark

**RECOMMENDED LAND PATTERN**



	A [mm]	B [mm]	C [mm]
TFM201208	2.4	1.2	1.2

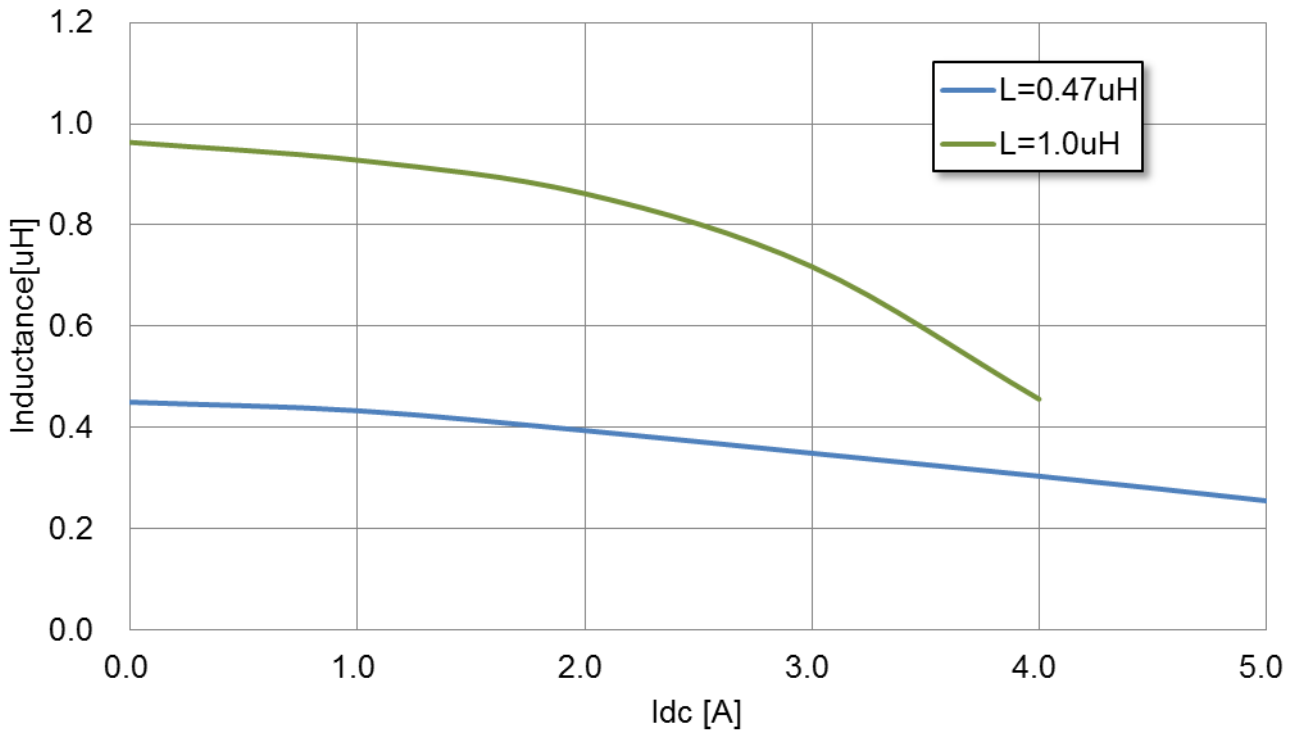
**ELECTRICAL CHARACTERISTICS**

Identification	Inductance [μH]	Test frequency [MHz]	DC Resistance [mOhm]		Isat [A]		Itemp [A]	
			Max	Typ.	Max	Typ.	Max	Typ.
TFM201208ALC-R47MTAA	0.47 +/-20%	1.0	33	29	4.1	4.3	3.9	4.3
TFM201208ALC-1R0MTAA	1.0 +/-20%	1.0	90	78	2.8	3.1	2.3	2.5

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. )

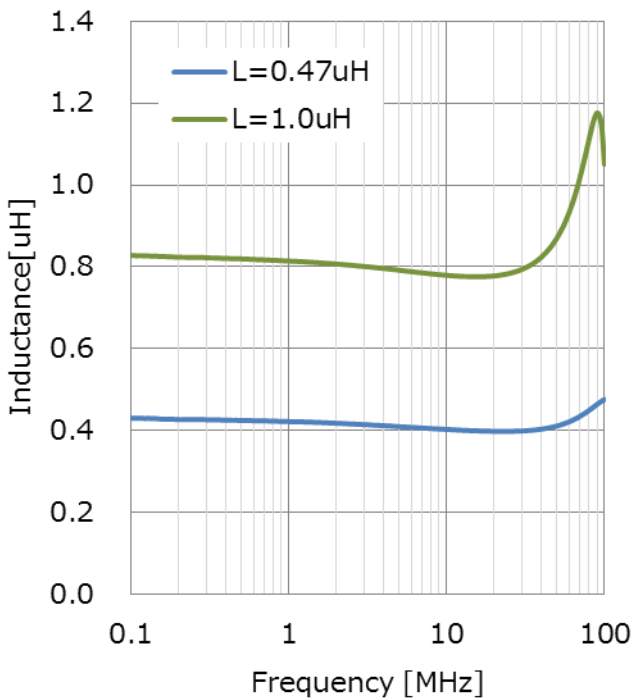
**TDK Thin Film Power inductor TFM201208ALC-TAA series**

**INDUCTANCE VS.DC SUPERPOSITION CHARACTERISTICS ( 1MHz )**



**FREQUENCY CHARACTERISTICS**

**Inductance vs. Frequency**



**Resistance vs. Frequency**

