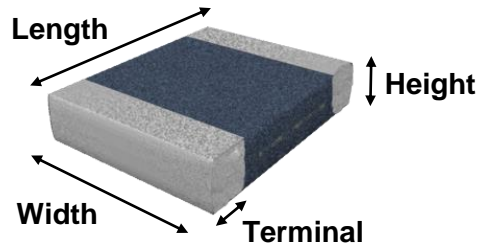


TDK Thin Film Power inductor TFM201608ALC series

FEATURES

- The package size of TFM2016 is L 2.0mm x W 1.6mm.
- 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



	Length ±0.2 [mm]	Width ±0.2 [mm]	Height Max. [mm]	Terminal Ref. [mm]
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TFM201608ALC	2.0	1.6	0.8	0.5
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APPLICATIONS

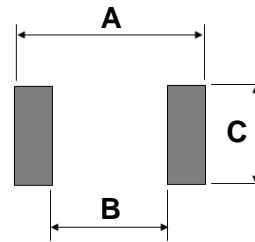
- Generic use for DC/DC Converter of portable device.
- Used for Smart phone, Feature phone, HDD, SSD, etc.

PRODUCT IDENTIFICATIONS

TFM 2016 08 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 (1R0 : 1.0μH)
- (6) Inductance tolerance (M : ±20%)
- (7) Packing style (T : Taping)
- (8) Control mark

RECOMMENDED RAND PATTERN



	A [mm]	B [mm]	C [mm]
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TFM201608ALC	2.4	1.2	1.6
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ELECTRICAL CHARACTERISTICS

Identification	Inductance [μH]	Test frequency [MHz]	DC Resistance [mOhm]		Isat [A]		Itemp [A]	
			Max	Typ.	Max	Typ.	Max	Typ.
TFM201608ALC-R47MTAA	0.47 +/-20%	1.0	27	24	4.4	4.7	4.3	4.6
TFM201608ALC-1R0MTAA	1.0 +/-20%	1.0	66	56	2.5	2.8	2.8	3.1
TFM201608ALC-2R2MTAA	2.2 +/-20%	1.0	123	110	2.0	2.5	2.0	2.2

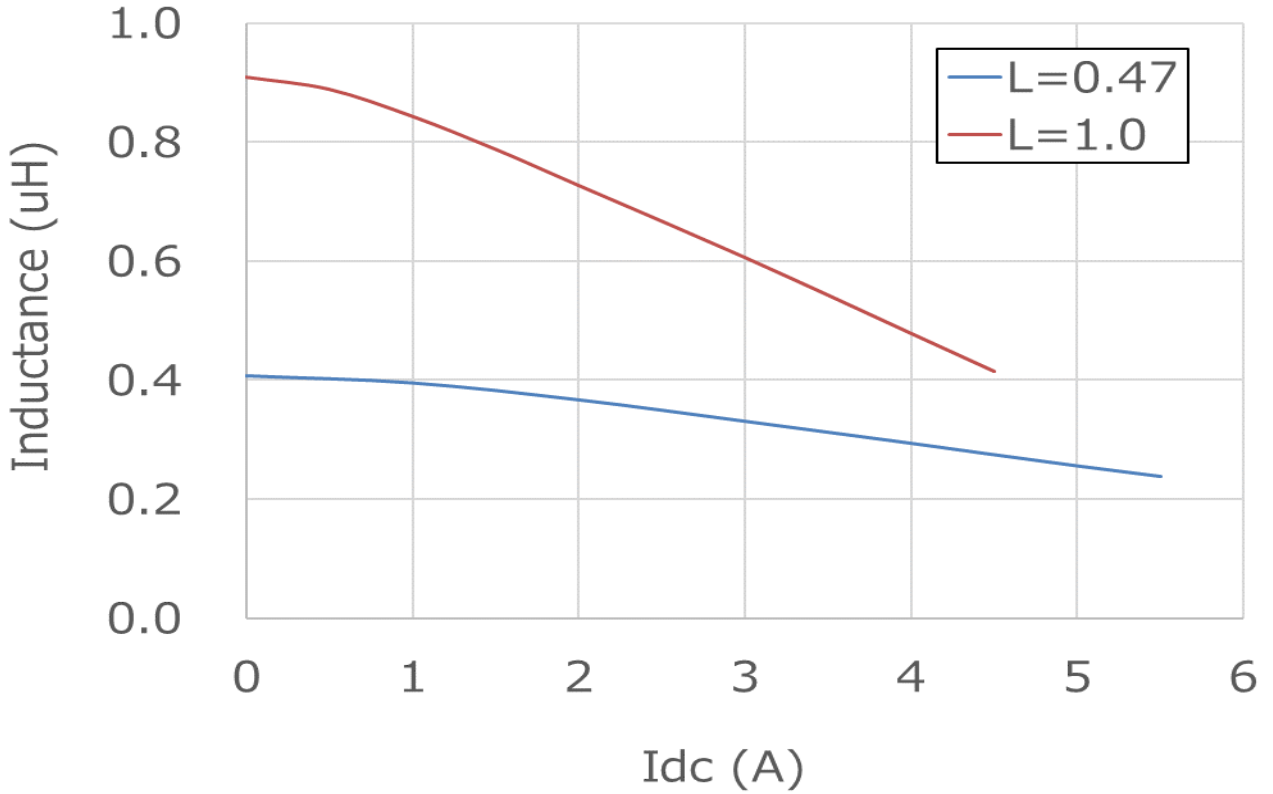
Isat : Depend on the Inductance Saturation. (-30% Reduction from Initial L Value/ Test Freq. 1MHz)

Itemp : Depend on the Self Temperature Rise. (40deg.C Typ.)

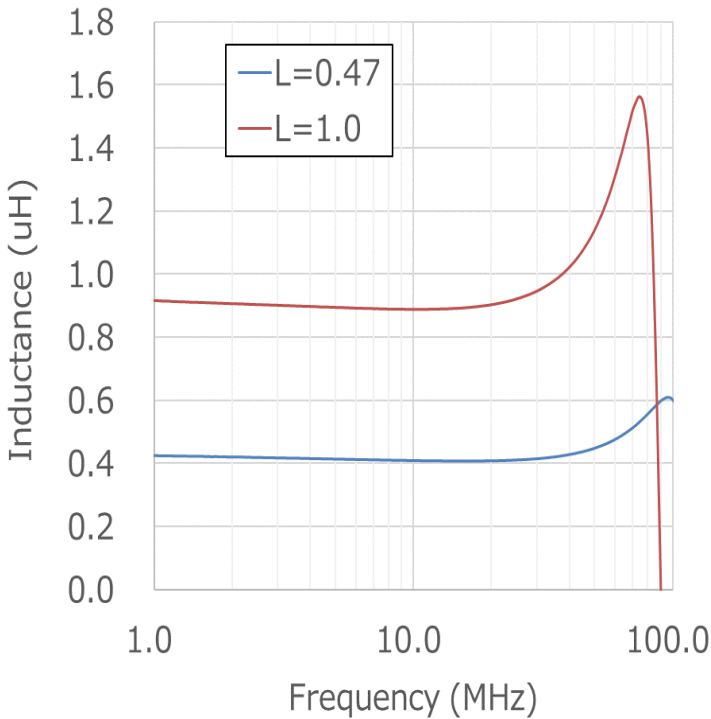


Inductance vs. DC Bias

Measurement Frequency : 1MHz



Inductance vs. Frequency



Resistance vs. Frequency

