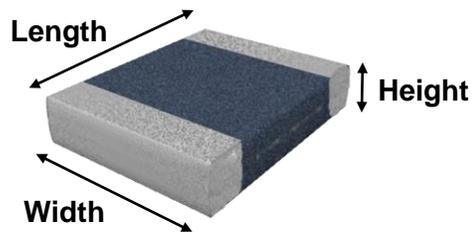


TDK Thin Film Power inductor TFM160808ALC series

FEATURES

- The package size of TFM1608 is L 1.6mm x W 0.8mm.
- 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

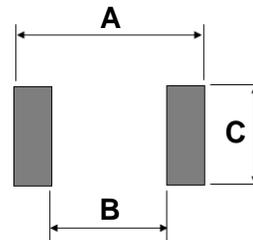
	Length ±0.2 [mm]	Width ±0.2 [mm]	Height Max. [mm]
TFM160808ALC	1.6	0.8	0.8

PRODUCT IDENTIFICATIONS

TFM 1608 08 ALC – R47 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]
TFM160808ALC	2.0	0.8	0.8

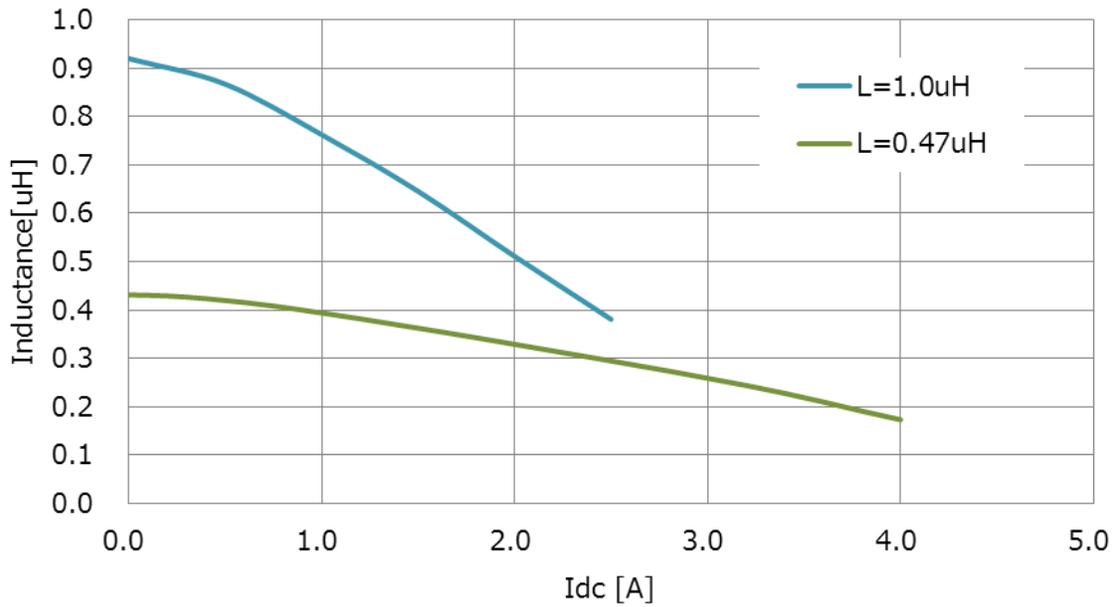
ELECTRICAL CHARACTERISTICS

Identification	Inductance [μH]	Test frequency [MHz]	DC Resistance [mOhm]		Rated current			
					Isat [A]		Itemp [A]	
			Max	Typ.	Max.	Typ.	Max	Typ.
TFM160808ALC-R47MTAA	0.47 +/-20%	1.0	62	55	2.0	2.4	2.6	2.7
TFM160808ALC-1R0MTAA	1.0+/-20%	1.0	155	138	1.1	1.3	1.7	1.8

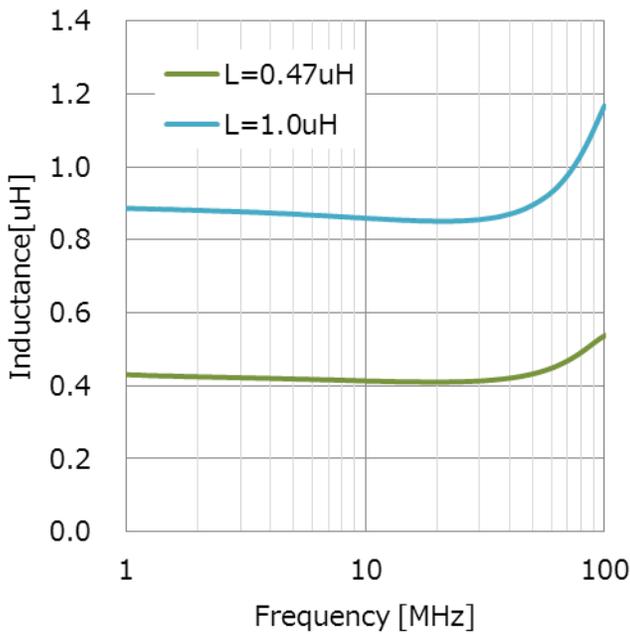
Isat : Depend on the Inductance Saturation. (-30% Reduction from Initial L Value/ Test Freq. 1MHz)
 Itemp : Depend on the Self Temperature Rise. (40deg.C Typ. Thermal Resistance of test board : 50deg.C/W)

TDK Thin Film Power inductor TFM160808ALC series

INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS (1MHz)



INDUCTANCE VS. FREQUENCY



RESISTANCE VS. FREQUENCY

