

TDK Thin Film Power inductor TFM252010GHM-TAA series

FEATURES

- The thickness of this product is 1.0mm, 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.

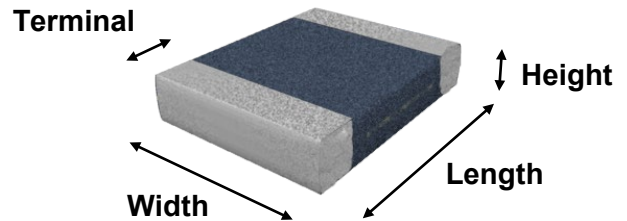
APPLICATIONS

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

Operating Temperature Rate

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

PRODUCTS SHAPE



DIMENSIONS

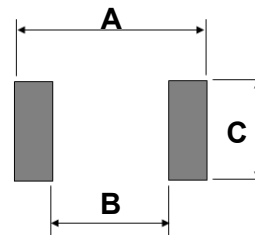
	Length ±0.2 [mm]	Width ±0.2 [mm]	Height Max. [mm]	Terminal Ref. [mm]
TFM252010	2.5	2.0	1.0	0.6

PRODUCT IDENTIFICATIONS

TFM 2520 10 GHM – 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 LAND PATTERN



	A [mm]	B [mm]	C [mm]
TFM252010	2.9	1.5	2.0

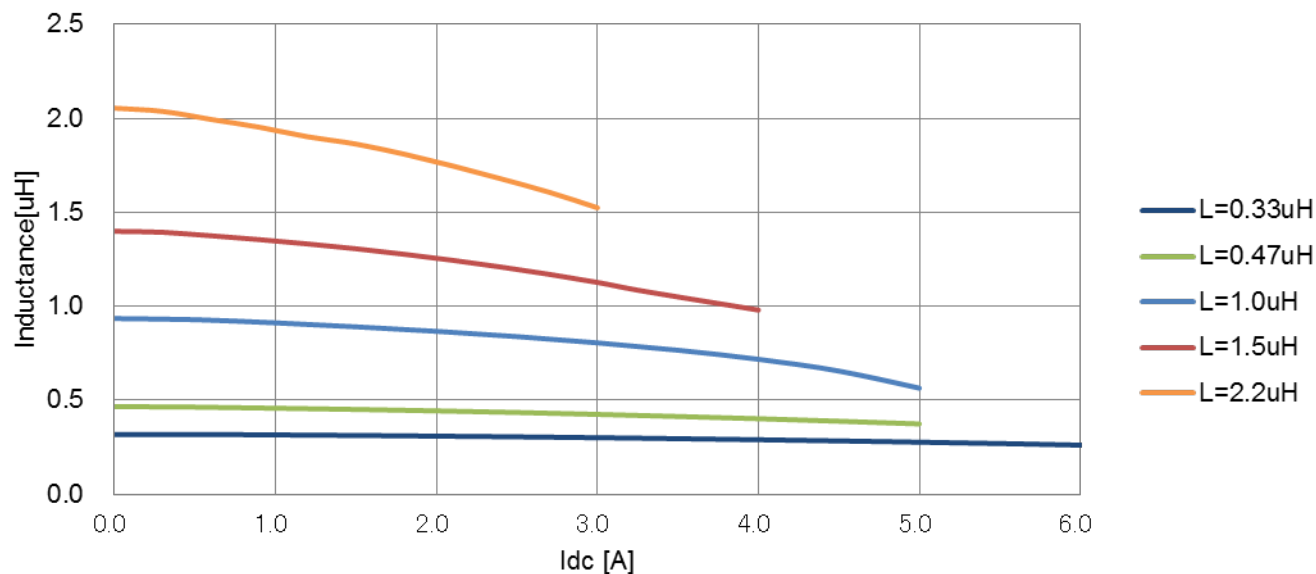
ELECTRICAL CHARACTERISTICS

Identification	Inductance [μH]	Test frequency [MHz]	DC Resistance [Ohm]		Rated current			
					Isat [A]		Itemp [A]	
			Max	Typ.	Max	Typ.	Max	Typ.
TFM252010GHM-R33MTAA	0.33 +/-20%	1.0	0.021	0.017	7.0	7.3	5.0	5.5
TFM252010GHM-R47MTAA	0.47 +/-20%	1.0	0.026	0.020	5.8	6.5	4.9	5.4
TFM252010GHM-1R0MTAA	1.0 +/-20%	1.0	0.056	0.045	4.0	4.5	3.4	3.7
TFM252010GHM-1R5MTAA	1.5 +/-20%	1.0	0.085	0.068	3.3	3.7	2.5	2.8
TFM252010GHM-2R2MTAA	2.2 +/-20%	1.0	0.097	0.085	3.1	3.5	2.6	2.8

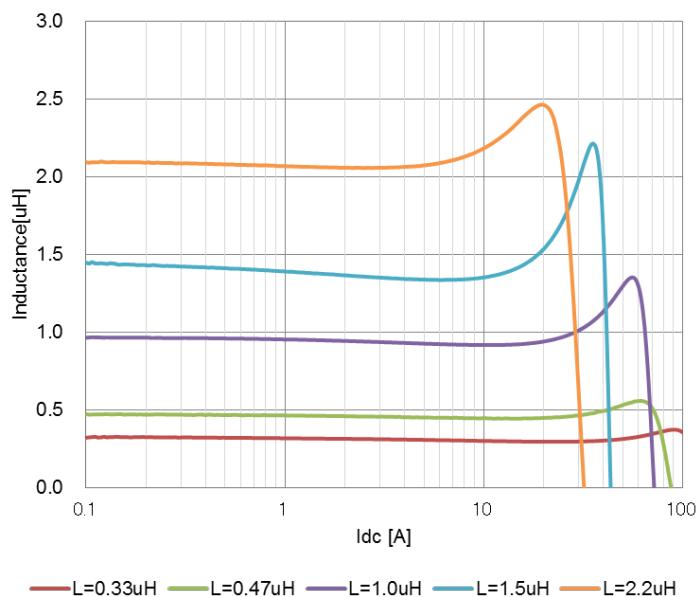
Isat : Depend on the Inductance Saturation. (-30% Reduction from Initial L Value/ Test Freq. 1MHz)
Itemp : Depend on the Self Temperature Rise (40deg.C Typ.)

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INDUCTANCE VS.DC SUPERPOSITION CHARACTERISTICS (1MHz)



L - FREQUENCY CHARACTERISTICS



Rac - FREQUENCY CHARACTERISTICS

