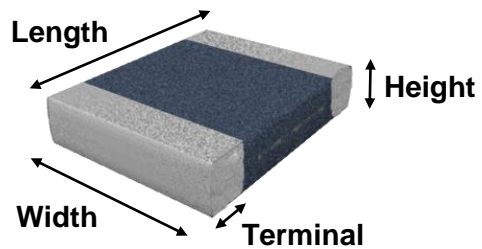


TDK Thin Film Power inductor TFM201608GHM series

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



APPLICATIONS

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

DIMENSIONS

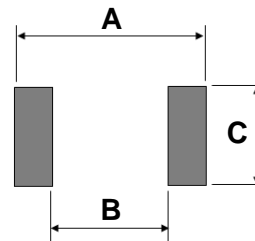
	Length ±0.2 [mm]	Width ±0.2 [mm]	Height Max. [mm]	Terminal Ref. [mm]
TFM201608GHM	2.0	1.6	0.8	0.5

PRODUCT IDENTIFICATIONS

TFM 2016 08 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 RAND PATTERN



	A [mm]	B [mm]	C [mm]
TFM201608GHM	2.3	1.1	1.6

ELECTRICAL CHARACTERISTICS (Simulation Data)

Identification	Inductance [μH]	Test frequency [MHz]	DC Resistance [Ohm]		Rated current			
			Max	Typ.	Idc-1 [A]		Idc2 [A]	
					Max	Typ.	Max	Typ.
TFM201608GHM-R24MTAA	0.24 +/-20%	1.0	0.034	0.027	3.6	4.0	4.0	4.5
TFM201608GHM-R47MTAA	0.47 +/-20%	1.0	0.058	0.046	3.3	3.6	3.1	3.4
TFM201608GHM-1R0MTAA	1.0 +/-20%	1.0	0.106	0.085	2.5	2.8	2.2	2.5
TFM201608GHM-1R5MTAA	1.5 +/-20%	1.0	0.200	0.160	2.0	2.3	1.7	1.9
TFM201608GHM-2R2MTAA	2.2 +/-20%	1.0	0.250	0.200	1.8	2.0	1.5	1.7

Idc 1 : Depend on the Inductance Saturation. (-30% Reduction from Initial L Value/ Test Freq. 1MHz)
 Idc 2 : Depend on the Self Temperature Rise (40deg.C Typ.)