

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.

Length **∐** Height Width **Terminal**

APPLICATIONS

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

DIMENSIONS

PRODUCTS SHAPE

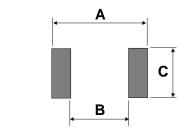
	±0.2	±0.2	Height Max. [mm]	Terminal Ref. [mm]	
TFM201608GHM	2.0	1.6	0.8	0.5	

PRODUCT IDENTIFICATIONS

TFM 2016 08 GHM - 1R0 M T AA (1) (3) (5) (6) (7) (8) (2) (4)

- (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



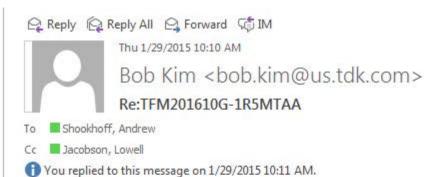
	A [mm]	B [mm]	C [mm]	
TFM201608GHM	2.3	1.1	1.6	

ELECTRICAL CHARACTERISTICS (Simulation Data)

Identification	Inductance [μH]	Test frequency [MHz]	DC		Rated current			
			Resistance [Ohm]		Idc-1 [A]		Idc2 [A]	
			Max	Тур.	Max	Тур.	Max	Тур.
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.)



The operating temperature is -40C to + 85C. If you include the temp rise, then we can cover upto 125C.

Yes, they are halogen free and RoHS compliance. Tape and reel size is 3K pcs.

If you need any additional info, please let me know.

Thank you

Bob

Sent from IBM Notes Traveler

Visit the TDK website at: http://www.tdk.com

Shookhoff, Andrew --- TFM201610G-1R5MTAA ---

From: "Shookhoff, Andrew" <ashookho@qti.qualcomm.com>

To: bob.kim@us.tdk.com

Cc: "Jacobson, Lowell" < lowelli@qti.qualcomm.com>

Date: Thu, Jan 29, 2015 8:01 AM
Downloaded from Arrow.com.