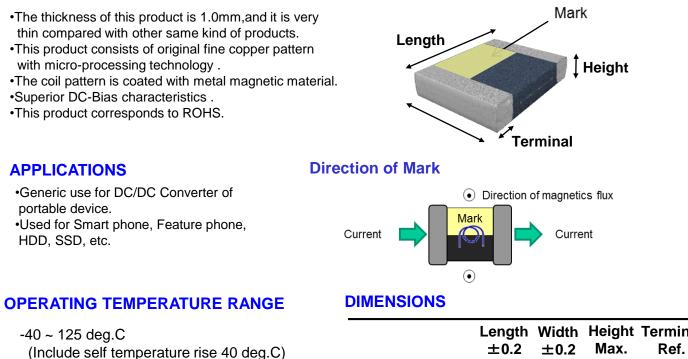
TDK Thin Film Technology



TDK Thin Film Power inductor TFM201610ALC-TCA series

FEATURES

PRODUCTS SHAPE



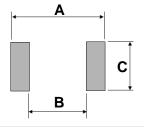
	Length	ngth Width Height Termi			
	±0.2	±0.2	Max.	Ref.	
	[mm]	[mm]	[mm]	[mm]	
TFM201610	2.0	1.6	1.0	0.5	

PRODUCT IDENTIFICATIONS

<u>TFM</u>	<u>2016</u>	<u>10</u>	<u>ALC</u>	– <u>1R0</u>	Μ	<u>TCA</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (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) Control mark

ELECTRICAL CHARACTERISTICS



RECOMMENDED LAND PATTERN

	A [mm]	B [mm]	C [mm]	
TFM201610	2.4	1.2	1.6	

Identification	Inductance [µH]	Test frequency [MHz]	DC Resistance [mOhm]		lsat [A]		Itemp [A]	
			Max	Тур.	Max	Тур.	Max	Тур.
TFM201610ALC-R47MTCA	0.47 +/-20%	1.0	25	20	4.6	4.8	4.6	5.2
TFM201610ALC-1R0MTCA	1.0 +/-20%	1.0	47	43	3.0	3.3	3.4	3.6
TFM201610ALC-2R2MTCA	2.2 +/-20%	1.0	102	92	1.7	1.9	2.3	2.5

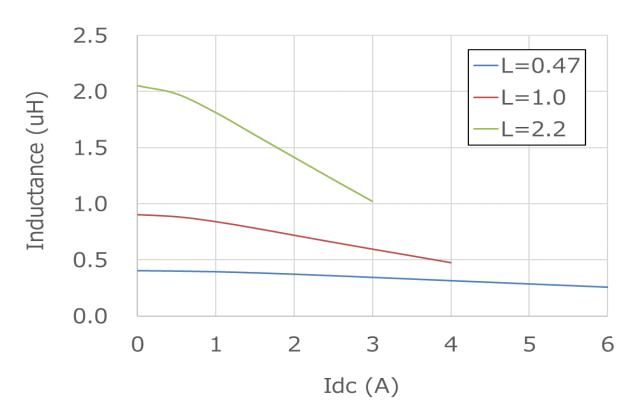
Isat : Depend on the Inductance Saturation. (-30% Reduction from Initial L Value/ Test Freq. 1MHz) Itemp : Depend on the Self Temperature Rise. (40deg.C Typ.)



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Inductance vs. DC Bias

Measurement Frequency : 1MHz



Inductance vs. Frequency

Resistance vs. Frequency

