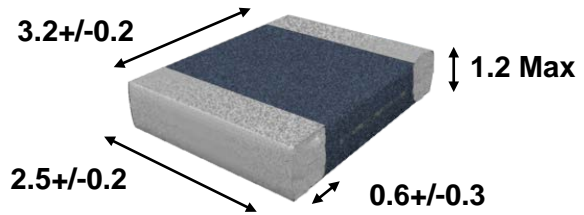


TDK Thin Film Power inductor TFM322512 for Automotive

FEATURES

- The thickness of this product is 1.2mm,and it is very thin compared with other same kind of products.
- This product consists of original fine copper pattern with micro-processing technology .
- This product corresponds to ROHS.

PRODUCTS SHAPE & DIMENSIONS



APPLICATIONS

- For Automotive usage

OPERATING TEMPERATURE RANGE

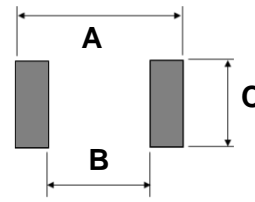
-55 to 150deg.C
(Including self-temperature rise : 40deg.C)

PRODUCT IDENTIFICATIONS

TFM 3225 12 ALM A R47 M T AA
(1) (2) (3) (4) (5) (6) (7) (8) (9)

- (1) Series name
- (2) Product size (Length , Width)
- (3) Product height
- (4) Product identification
- (5) Automotive usage grade
- (6) Inductance value (R47 : 0.47μH)
- (7) Inductance tolerance (M :±20%)
- (8) Packing style (T : Taping)
- (9) Control mark

RECOMMENDED RAND PATTERN



	A [mm]	B [mm]	C [mm]
TFM322512	3.6	2.0	2.5

ELECTRICAL CHARACTERISTICS

Identification	Inductance [μH]	Rated Voltage [V]	DC Resistance [mOhm]		Isat [A]		Itemp [A]	
			Max	Typ.	Max	Typ.	Max.	Typ.
TFM322512ALMAR10MTAA	0.10+/-20%	20	8	3	13	14	8.5	13
TFM322512ALMAR15MTAA	0.15+/-20%	20	9	5	10	11	8.0	11
TFM322512ALMAR22MTAA	0.22+/-20%	20	11	6	9.5	10	7.3	9.5
TFM322512ALMAR33MTAA	0.33+/-20%	20	15	10	7.6	8.4	6.2	7.6
TFM322512ALMAR47MTAA	0.47+/-20%	20	21	16	6.9	7.6	5.3	6.1
TFM322512ALMAR68MTAA	0.68+/-20%	20	30	23	5.5	6.1	4.4	5.0
TFM322512ALMA1R0MTAA	1.0 +/-20%	20	37	30	4.6	5.1	4.0	4.4
TFM322512ALMA1R5MTAA	1.5 +/-20%	20	57	46	4.0	4.5	3.2	3.5
TFM322512ALMA2R2MTAA	2.2 +/-20%	20	77	64	3.3	3.6	2.7	3.0
TFM322512ALMA3R3MTAA	3.3 +/-20%	20	113	97	2.5	2.8	2.3	2.5
TFM322512ALMA4R7MTAA	4.7 +/-20%	20	151	127	2.2	2.5	1.9	2.1
TFM322512ALMA6R8MTAA	6.8 +/-20%	20	260	220	1.8	2.1	1.4	1.6
TFM322512ALMA100MTAA	10 +/-20%	20	360	305	1.6	1.8	1.2	1.4

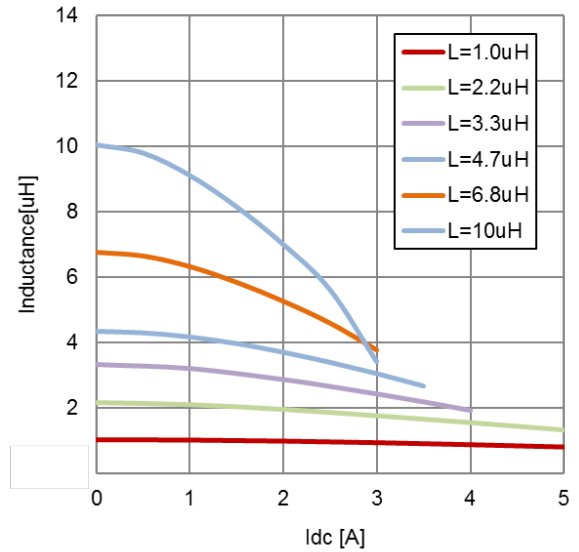
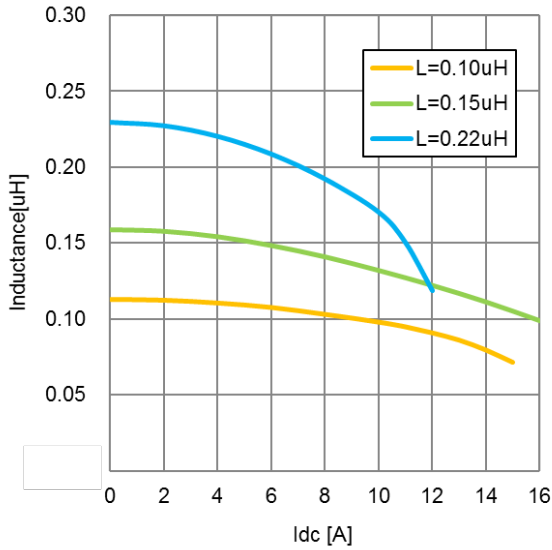
Isat : Depend on the Inductance Saturation. (-30% Reduction from Initial L Value/ Test Freq. 1MHz)

Itemp : Depend on the Self Temperature Rise. (40deg.C Typ.)

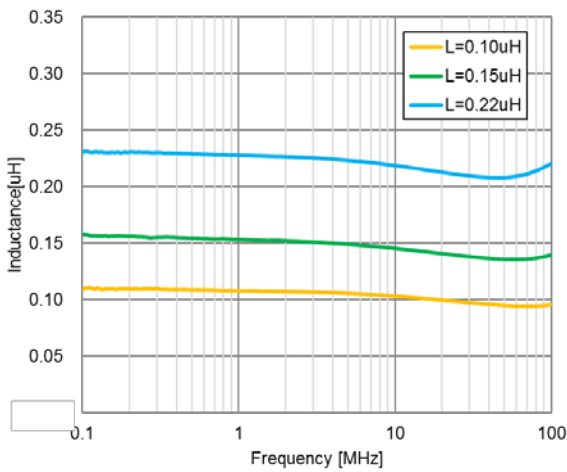
Rated Current: The less value which is Isat Max or Itemp Max.

TDK Thin Film Power inductor TFM322512 for Automotive

INDUCTANCE VS.DC SUPERPOSITION CHARACTERISTICS (1MHz)



L - FREQUENCY CHARACTERISTICS



R - FREQUENCY CHARACTERISTICS

