

TDK Thin Film Power inductor TFM322512-ALTA Series

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.

APPLICATIONS

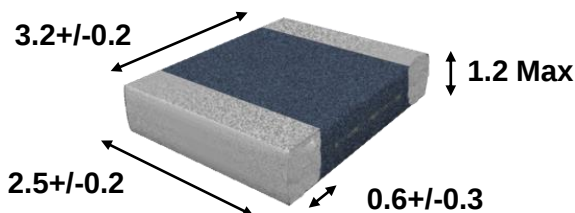
- Automotive usage
Conform to AEC-Q200
- Base station
- Server

PRODUCT IDENTIFICATIONS

TFM 3225 12 ALT 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 : 0.47 μ H)
- (7) Inductance tolerance (M : $\pm 20\%$)
- (8) Packing style (T : Taping)
- (9) Control mark

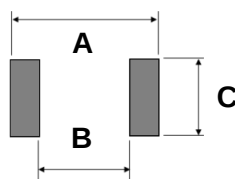
PRODUCTS SHAPE & DIMENSIONS



OPERATING TEMPERATURE RANGE

-40 to 125deg.C
(Including self-temperature rise : 40deg.C)

RECOMMENDED RAND PATTERN



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

ELECTRICAL CHARACTERISTICS (Tentative SPEC)

Identification	Inductance [μ H]	Rated Voltage [V]	DC Resistance [mOhm]		Isat [A]		Itemp [A]	
			Max	Typ.	Max	Typ.	Max.	Typ.
TFM322512ALTAR10MTAA	0.10+/-20%	20	7	3	13	14	9.1	13
TFM322512ALTAR15MTAA	0.15+/-20%	20	9	5	11	12	8.0	10
TFM322512ALTAR22MTAA	0.22+/-20%	20	10	6	9.8	11	7.6	9.5
TFM322512ALTAR33MTAA	0.33+/-20%	20	15	11	7.6	8.4	6.2	7.4
TFM322512ALTAR47MTAA	0.47+/-20%	20	21	16	6.9	7.6	5.3	6.1
TFM322512ALTAR68MTAA	0.68+/-20%	20	30	23	6.2	6.9	4.4	5.0
TFM322512ALTA1R0MTAA	1.0 +/-20%	20	37	30	4.6	5.1	4.0	4.4
TFM322512ALTA1R5MTAA	1.5 +/-20%	20	57	46	4.0	4.5	3.2	3.5
TFM322512ALTA2R2MTAA	2.2 +/-20%	20	77	64	3.3	3.6	2.7	3.0
TFM322512ALTA3R3MTAA	3.3 +/-20%	20	113	97	2.5	2.8	2.3	2.5
TFM322512ALTA4R7MTAA	4.7 +/-20%	20	151	127	2.2	2.5	1.9	2.1
TFM322512ALTA6R8MTAA	6.8 +/-20%	20	260	220	1.8	2.1	1.4	1.6
TFM322512ALTA100MTAA	10 +/-20%	20	360	305	1.6	1.8	1.2	1.4

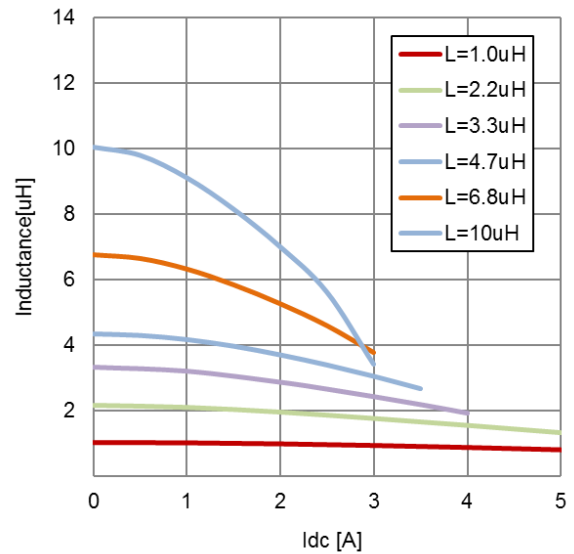
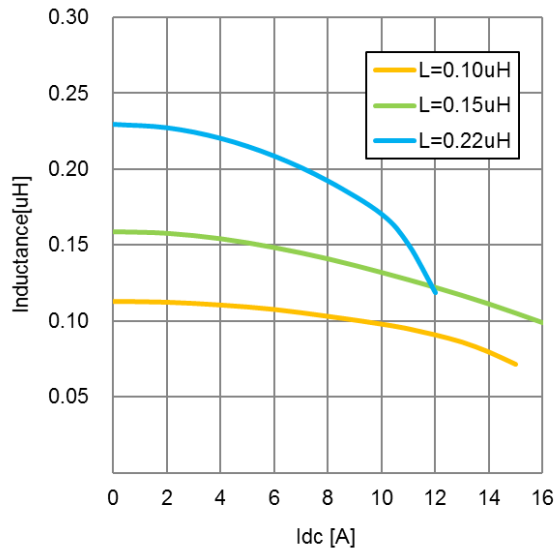
Isat : Depend on the Inductance Saturation. (-30% Reduction from Initial L Value/ Test Freq. 1MHz)

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

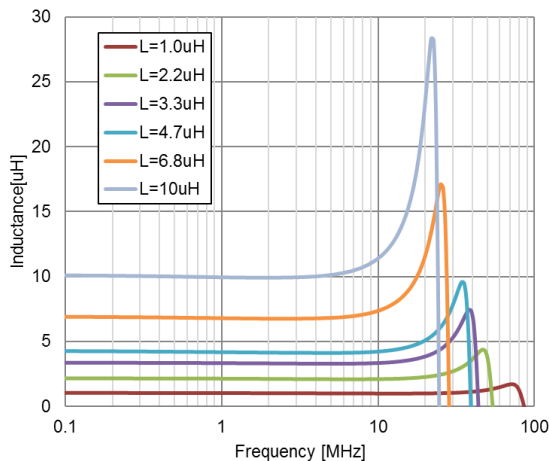
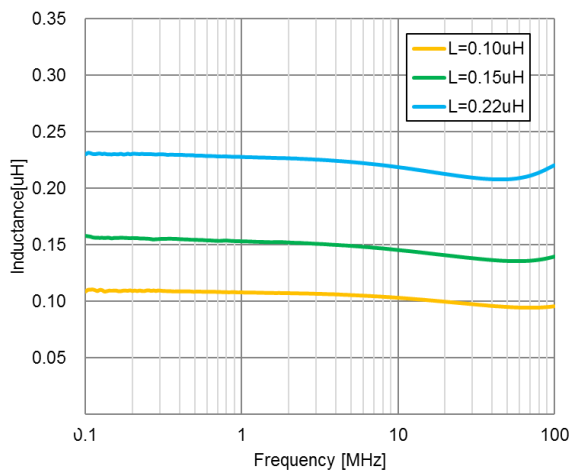
Rated Current: The less value which is Isat Max or Itemp Max.

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INDUCTANCE VS.DC SUPERPOSITION CHARACTERISTICS (1MHz)



L - FREQUENCY CHARACTERISTICS



R - FREQUENCY CHARACTERISTICS

