

TDK Thin Film Power inductor TMS322512 series

FEATURES

- •The thickness of this product is 1.2mm, and it is very thin compared with other same kind of products.
- •This product corresponds to ROHS.

APPLICATIONS

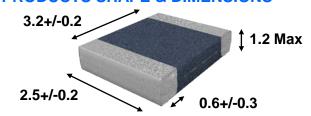
•For Industrial equipment, PC, HDD, SDD, Power module etc.

PRODUCT IDENTIFICATIONS

TMS 3225 12 ALM - R47 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 (R47: 0.47µH)
- (6) Inductance tolerance (M:±20%)
- (7) Packing style (T: Taping)
- (8) Control mark

PRODUCTS SHAPE & DIMENSIONS

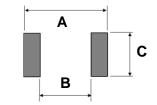


OPERATING TEMPERATURE RANGE

-40 to 125deg.C

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

RECOMMENDED RAND PATTERN



	A	B	C
	[mm]	[mm]	[mm]
TMS322512	3.6	2.0	2.5

ELECTRICAL CHARACTERISTICS

Identification	Inductance [μH] @1MHz	Rated Voltage [V]	DC Resistance [mOhm]		Isat [A]		Itemp [A]		Status
			Max	Тур.	Max	Тур.	Max.	Тур.	
TMS322512ALM-R10MTAA*	0.10+/-20%	20	8	4	13	14	8.0	13	ES
TMS322512ALM-R15MTAA	0.15+/-20%	20	9	5	10	11	8.0	11	CS
TMS322512ALM-R22MTAA*	0.22+/-20%	20	11	6	9.5	10	7.0	9.5	ES
TMS322512ALM-R33MTAA*	0.33+/-20%	20	15	10	8.6	9.5	6.0	7.3	ES
TMS322512ALM-R47MTAA	0.47+/-20%	20	21	16	6.9	7.6	5.3	6.1	CS
TMS322512ALM-R68MTAA	0.68+/-20%	20	30	23	5.5	6.1	4.4	5.0	CS
TMS322512ALM-1R0MTAA	1.0 +/-20%	20	37	30	4.6	5.1	4.0	4.4	MP
TMS322512ALM-1R5MTAA	1.5 +/-20%	20	57	46	4.0	4.5	3.2	3.5	CS
TMS322512ALM-2R2MTAA	2.2 +/-20%	20	77	64	3.3	3.6	2.7	3.0	MP
TMS322512ALM-3R3MTAA	3.3 +/-20%	20	113	97	2.5	2.8	2.3	2.5	CS
TMS322512ALM-4R7MTAA	4.7 +/-20%	20	151	127	2.2	2.5	1.9	2.1	CS
TMS322512ALM-6R8MTAA	6.8 +/-20%	20	260	220	1.8	2.1	1.4	1.6	CS
TMS322512ALM-100MTAA	10 +/-20%	20	360	305	1.6	1.8	1.2	1.4	CS

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.

ES: Engineering Sample CS: Commercial Sample MP: Mass Production

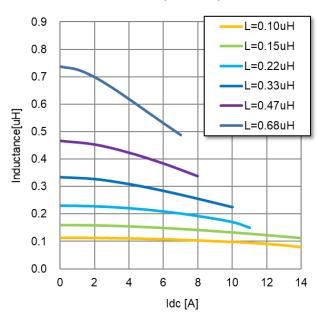
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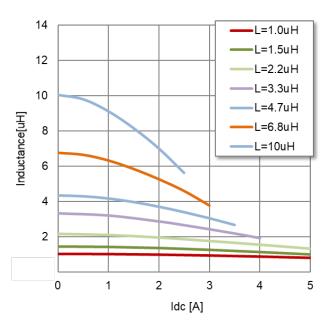
^{*} These products are under development. This document is subjected to change specifications without notice.



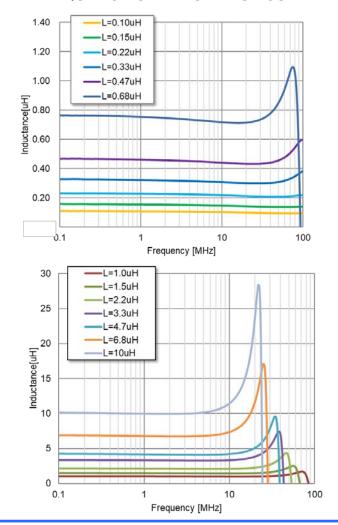
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INDUCTANCE VS.DC SUPERPOSITION CHARACTERISTICS (1MHz)

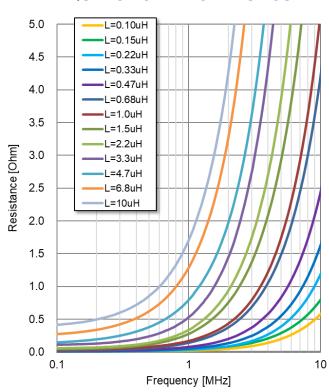




L - FREQUENCY CHARACTERISTICS



R-FREQUENCY CHARACTERISTICS



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