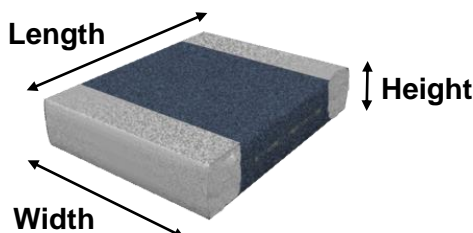


TDK Thin Film Power inductor TFM252010ALM series

FEATURES

- The package size of TFM2520 is L 2.5mm x W 2.0mm.
- The thickness of this product is 1.0mm, 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.

PRODUCTS SHAPE



APPLICATIONS

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

OPERATING TEMPERATURE RANGE

-40 ~ 125 deg.C
(Include self temperature rise 40 deg.C)

PRODUCT IDENTIFICATIONS

TFM 2520 10 ALM – 1R0 M T AA

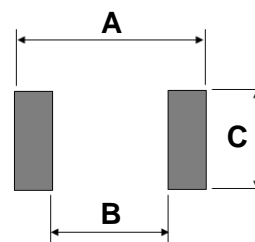
(1) (2) (3) (4) (5) (6) (7) (8)

- (1) Series name
- (2) Product size (Length , Width)
- (3) Product height
- (4) Product identification
- (5) Inductance value (1R0 : 1.0μH)
- (6) Inductance tolerance (M : ±20%)
- (7) Packing style (T : Taping)
- (8) Control mark

DIMENSIONS

| | Length ±0.2 [mm] | Width ±0.2 [mm] | Height Max. [mm] |
|--------------|------------------------|-----------------------|------------------------|
| TFM252010ALM | 2.5 | 2.0 | 1.0 |

RECOMMENDED RAND PATTERN



| | A [mm] | B [mm] | C [mm] |
|--------------|-----------|-----------|-----------|
| TFM252010ALM | 2.9 | 1.5 | 2.0 |

ELECTRICAL CHARACTERISTICS

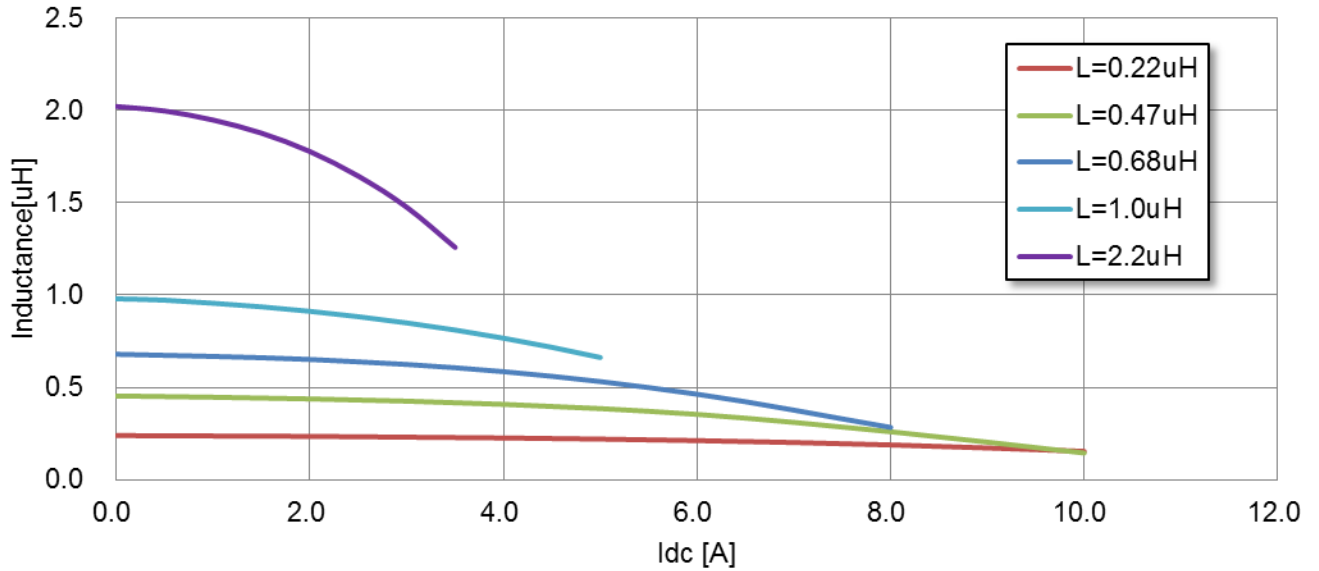
| Identification | Inductance [μH] | Test frequency [MHz] | DC Resistance [mOhm] | | Rated current | | | |
|----------------------|--------------------|----------------------------|----------------------------|------|---------------|------|----------|------|
| | | | | | Idc-1 [A] | | Idc2 [A] | |
| | | | Max | Typ. | Max | Typ. | Max | Typ. |
| TFM252010ALM-R22MTAA | 0.22 +/-20% | 1.0 | 13 | 11 | 7.4 | 8.0 | 6.5 | 7.0 |
| TFM252010ALM-R47MTAA | 0.47 +/-20% | 1.0 | 24 | 20 | 5.8 | 6.5 | 5.1 | 5.5 |
| TFM252010ALM-R68MTAA | 0.68 +/-20% | 1.0 | 36 | 31 | 5.0 | 6.0 | 3.9 | 4.2 |
| TFM252010ALM-1R0MTAA | 1.0 +/-20% | 1.0 | 45 | 38 | 4.5 | 4.7 | 3.3 | 3.6 |
| TFM252010ALM-2R2MTAA | 2.2 +/-20% | 1.0 | 94 | 82 | 3.1 | 3.5 | 2.6 | 2.8 |

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

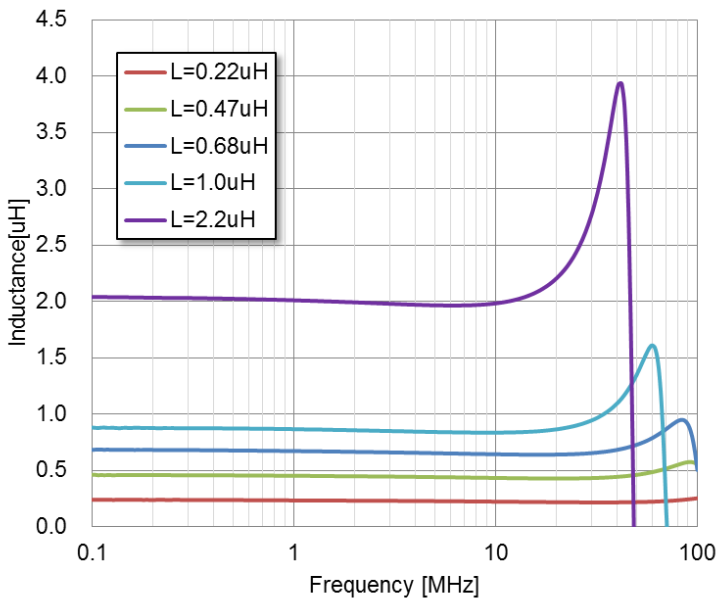
Idc 2 : Depend on the Self Temperature Rise. (40deg.C Typ.)

TDK Thin Film Power inductor TFM252010ALM series

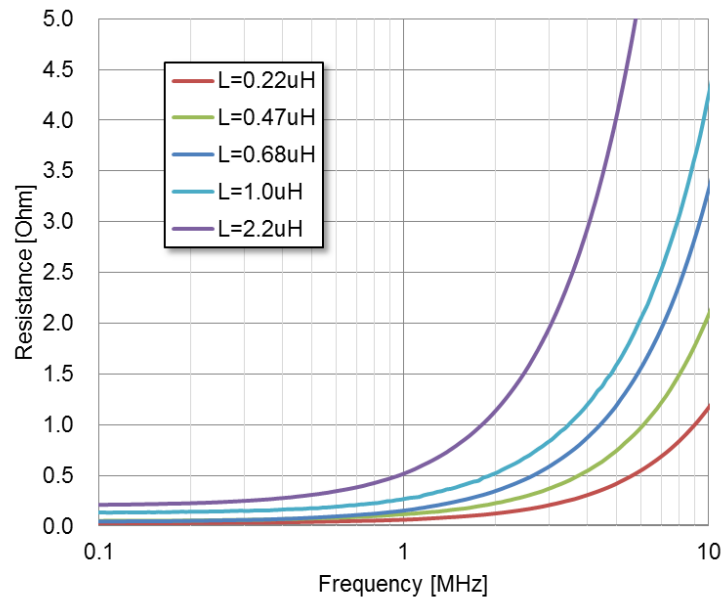
Inductance - DC Bias



Inductance - Frequency



Resistance - Frequency



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[78P7200-IH/F](#) [MLP2012S1R5TT](#) [ACH3218-682-TD01](#) [ACT45B-KIT](#) [NL565050T-822J-PF](#) [C1005JB1H471K050BA](#)
[C1608CH1H151J080AA](#) [C2012JB1H105K125AB](#) [C4532NP01H154J250KA](#) [SLF12575T-680M2R0-PF](#) [CD75-B2GA331KYGKA](#)
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[3R3M1R0](#) [VLS4012T-150MR65](#) [ZCAT-KIT](#) [MPZ2012-KIT](#) [NLV32T-R27J-EFD](#) [CKCM25C0G2A101K060AK](#) [CLF10040T-4R7N](#)
[VLS252010HBX-R24M-1](#) [CGJ2B2X7R1C222K](#) [CGA8M3X7R1H475K](#) [CGA9M1X7T2J334K](#) [CGA8P3X7T2E105M/SOFT](#)
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