

## FMD1250 Series



### FEATURES

High performance (Isat) realized by metal dust core  
Low loss realized with low DCR

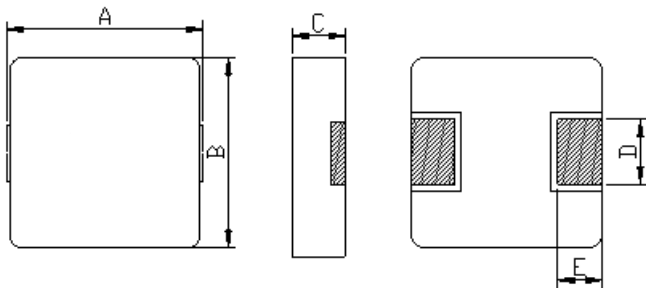
### APPLICATIONS

DC/DC converter for CPU in Notebook PC

### SPECIFICATIONS

|                             |                 |
|-----------------------------|-----------------|
| Operating temperature range | -40 to +125°C   |
| Storage temperature range   | Under 25°C      |
| Packaging style             | Taping          |
| Quantities                  | 500 pieces/reel |

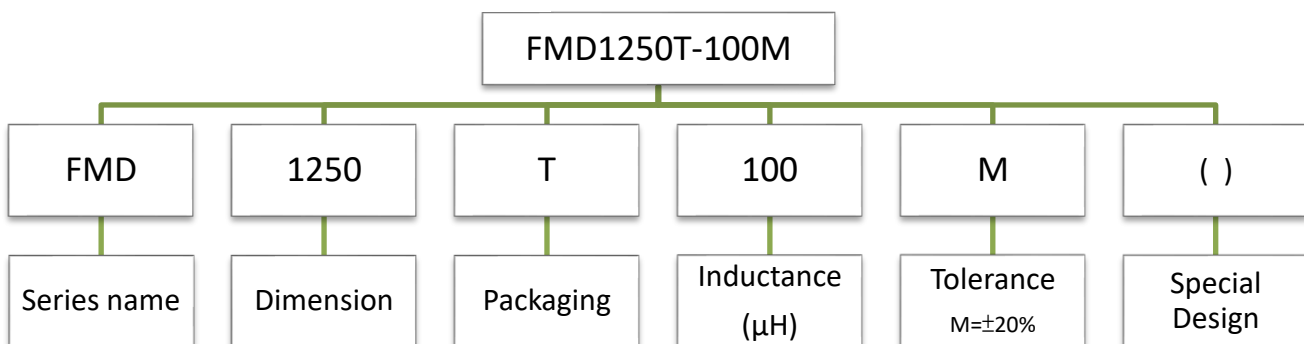
### SHAPE AND DIMENSIONS (mm)



| ITEM | A/mm    | B/mm    | C/mm   | D/mm    | E/mm    |
|------|---------|---------|--------|---------|---------|
| SPEC | 14.5max | 13.3max | 5.0max | 3.8±0.5 | 2.5±0.5 |

### PRODUCT IDENTIFICATION

(ex.)



### Attention & Caution :

**Please avoid following matters:**

- \* Splashing water or salt water \* Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- \* Vibrations or shocks which exceed the specified condition \* Dew condensens
- \* Please be careful for the stress to this product by board flexure or something after the mounting.

## ELECTRICAL CHARACTERISTICS

| Part No.      | Inductance<br>( $\mu\text{H}$ ) $\pm 20\%$ | RDC(m $\Omega$ ) |      | Isat(A) |      | Irms(A) |      |
|---------------|--|------------------|------|---------|------|---------|------|
|               |  | Typ.             | Max. | Typ.    | Typ. | Typ.    | Typ. |
| FMD1250T-R10M | 0.10                                       | 0.53             | 0.60 | 118     |      | 55      |      |
| FMD1250T-R22M | 0.22                                       | 0.64             | 0.80 | 110     |      | 51      |      |
| FMD1250T-R33M | 0.33                                       | 0.85             | 1.1  | 80      |      | 42      |      |
| FMD1250T-R47M | 0.47                                       | 1.1              | 1.3  | 65      |      | 38      |      |
| FMD1250T-R56M | 0.56                                       | 1.3              | 1.5  | 55      |      | 36      |      |
| FMD1250T-R68M | 0.68                                       | 1.5              | 1.7  | 54      |      | 34      |      |
| FMD1250T-R82M | 0.82                                       | 2.0              | 2.3  | 53      |      | 31      |      |
| FMD1250T-1R0M | 1.0  | 2.1              | 2.5  | 50      |      | 29      |      |
| FMD1250T-1R2M | 1.2  | 2.8              | 3.5  | 49      |      | 25      |      |
| FMD1250T-1R5M | 1.5  | 3.4              | 4.1  | 48      |      | 23      |      |
| FMD1250T-1R8M | 1.8  | 4.2              | 4.9  | 40      |      | 20      |      |
| FMD1250T-2R2M | 2.2  | 4.6              | 5.5  | 32      |      | 19      |      |
| FMD1250T-3R3M | 3.3  | 7.7              | 9.2  | 32      |      | 15      |      |
| FMD1250T-4R7M | 4.7  | 12.8             | 15.0 | 27      |      | 12      |      |
| FMD1250T-5R6M | 5.6  | 14.0             | 16.5 | 22      |      | 11.5    |      |
| FMD1250T-6R8M | 6.8  | 15.4             | 18.5 | 21      |      | 11      |      |
| FMD1250T-7R8M | 7.8  | 17.2             | 20.5 | 18      |      | 10      |      |
| FMD1250T-8R2M | 8.2  | 18.9             | 22.5 | 18      |      | 9.5     |      |
| FMD1250T-100M | 10   | 21.4             | 25.5 | 16      |      | 9       |      |

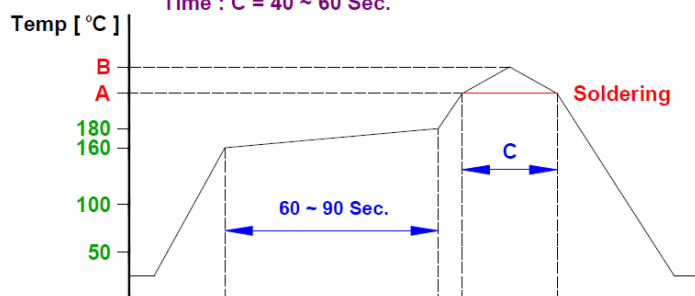
\* Test Condition @100KHz , 1.0Vrms , 25°C Ambient

\* Isat : Saturated Current measured at the point of L drop approximately 30%

\* Irms : Rated Current Loading when temperature rise approximately 40°C

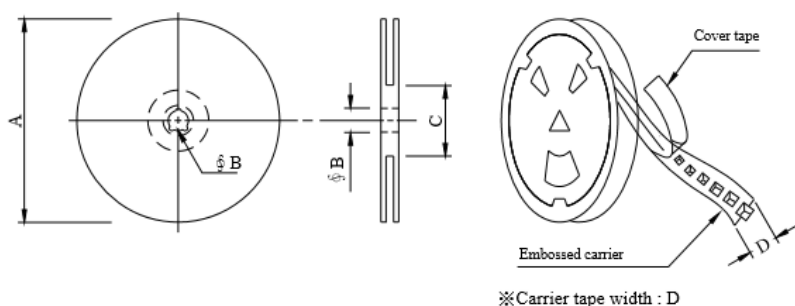
## RECOMMENDED SOLDERING CONDITIONS

Lead Free Solder : A = 217 °C    B = 245 +/- 5 °C  
 Time : C = 40 ~ 60 Sec.

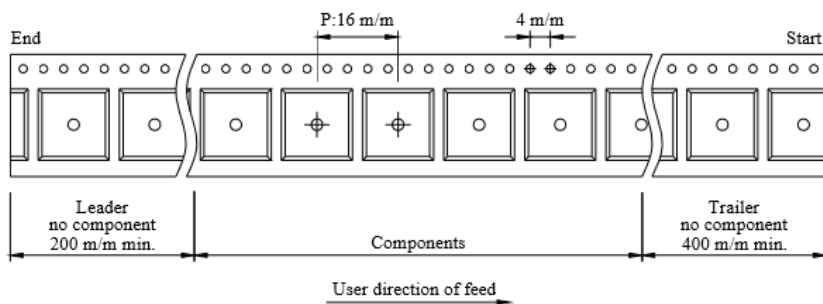


Notice : Iron Soldering , Solder < 30 Watt , Direct touch the terminal x 3 Sec. Max. @ 350 °C

## PACKAGE



※Carrier tape width : D



| Reel type | A     | B    | C     | D    | Reel Q'ty |
|-----------|-------|------|-------|------|-----------|
| 13-24     | 330mm | 13mm | 100mm | 24mm | 500pcs    |