

FMD1265 Series



FEATURES

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

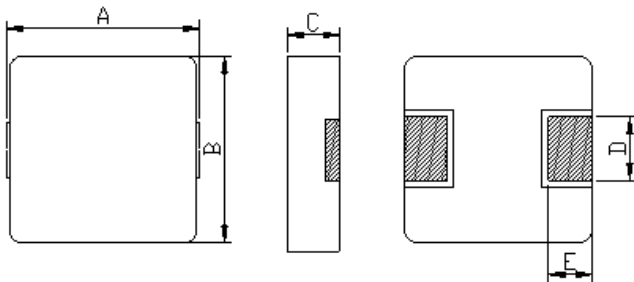
APPLICATIONS

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 | 400 pieces/reel |

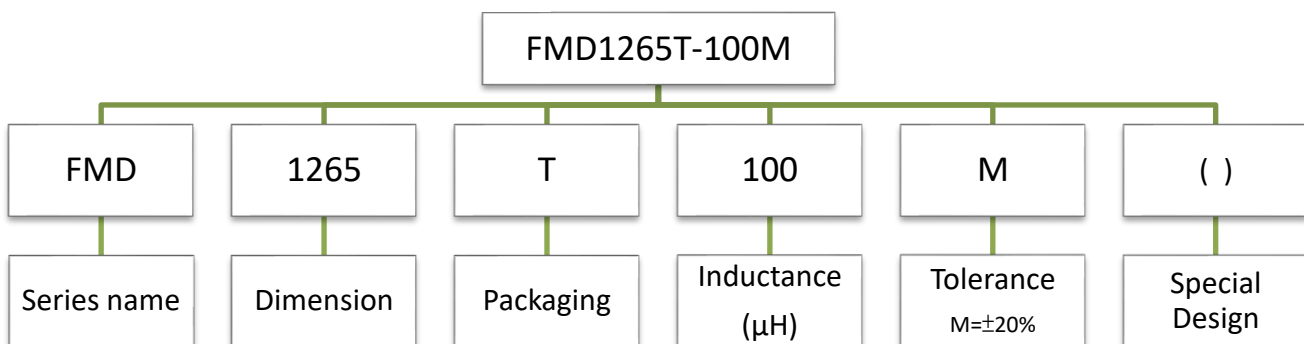
SHAPE AND DIMENSIONS (mm)



| ITEM | A/mm | B/mm | C/mm | D/mm | E/mm |
|------|---------|---------|--------|--------|--------|
| SPEC | 14.5max | 13.3max | 6.5max | 3.8REF | 2.5REF |

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 condens

* Please be careful for the stress to this product by board flexure or something after the mounting.

ELECTRICAL CHARACTERISTICS

| Part No. | Inductance (μH) $\pm 20\%$ | RDC(m Ω) Typ. | RDC(m Ω) Max. | Isat(A) Typ. | Irms(A) Typ. |
|---------------|--|--------------------------|--------------------------|-----------------|-----------------|
| FMD1265T-R47M | 0.47 | 1.0 | 1.2 | 63.0 | 41.0 |
| FMD1265T-R68M | 0.68 | 1.4 | 1.6 | 60.0 | 35.0 |
| FMD1265T-1R0M | 1.0 | 1.7 | 2.0 | 49.0 | 32.0 |
| FMD1265T-1R5M | 1.5 | 2.5 | 3.0 | 45.0 | 27.0 |
| FMD1265T-2R2M | 2.2 | 3.5 | 4.2 | 40.0 | 22.0 |
| FMD1265T-3R3M | 3.3 | 5.7 | 6.8 | 35.0 | 18.0 |
| FMD1265T-4R7M | 4.7 | 9.3 | 11.2 | 30.0 | 13.5 |
| FMD1265T-6R8M | 6.8 | 13.1 | 14.0 | 16.5 | 11.5 |
| FMD1265T-8R2M | 8.2 | 14.5 | 15.5 | 16.0 | 10.5 |
| FMD1265T-100M | 10.0 | 15.8 | 16.8 | 15.5 | 10.0 |
| FMD1265T-150M | 15.0 | 25.0 | 29.0 | 9.0 | 6.0 |

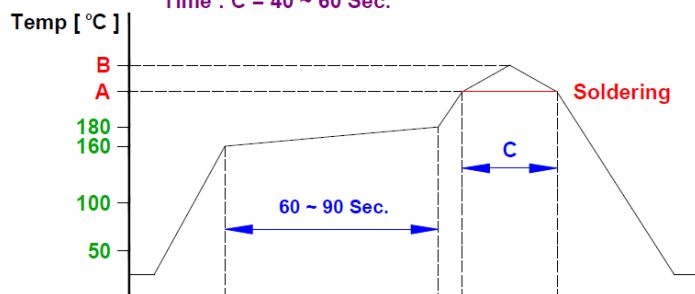
* Test Condition @100KHz , 1.0Vrms , 25°C Ambient

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

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

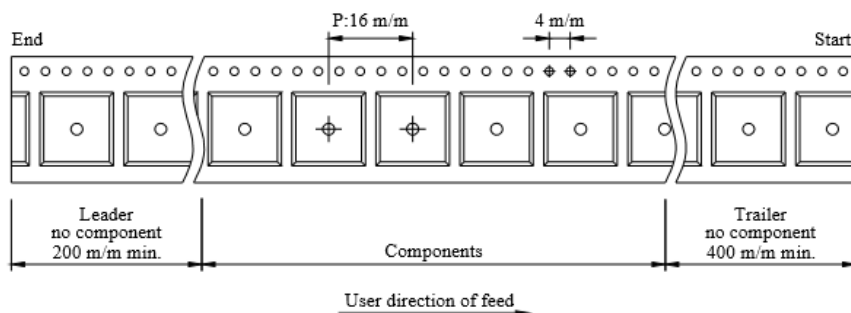
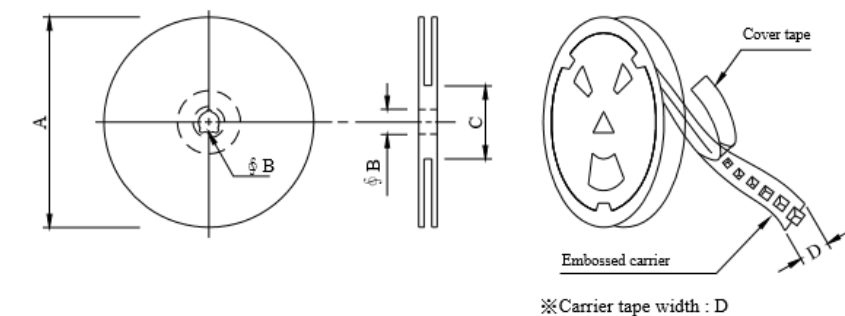
RECOMMENDED SOLDERING CONDITIONS

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



| Reel type | A | B | C | D | Reel Q'ty |
|-----------|-------|------|-------|------|-----------|
| 13-24 | 330mm | 13mm | 100mm | 24mm | 400pcs |