

FMD5030series



FEATURES

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

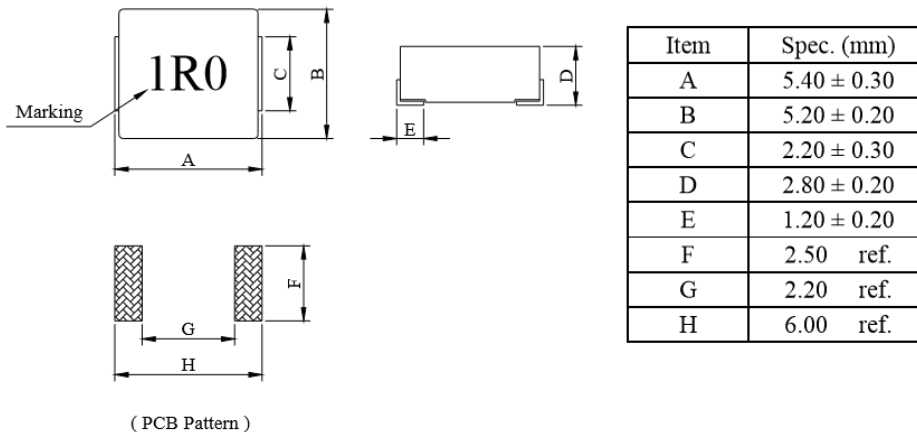
APPLICATIONS

DC/DC converter for CPU in Notebook PC

SPECIFICATIONS

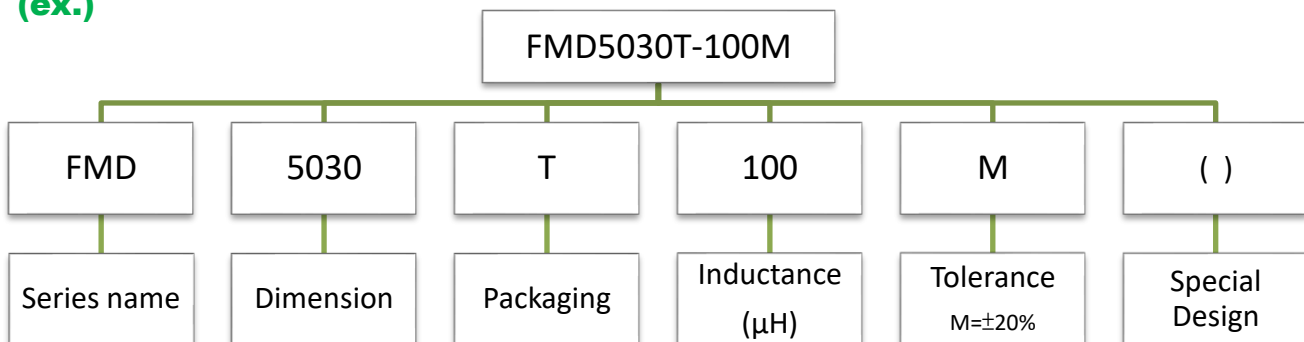
| | |
|-----------------------------|------------------|
| Operating temperature range | -40 to +125°C |
| Storage temperature range | Under 25°C |
| Packaging style | Taping |
| Quantities | 2000 pieces/reel |

SHAPE AND DIMENSIONS (mm)



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 condenses
- * 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. |
|---------------|--|--------------------------|--------------------------|-----------------|-----------------|
| FMD5030T-R10M | 0.1 | 2.4 | 3.0 | 33.0 | 25.0 |
| FMD5030T-R20M | 0.2 | 3.5 | 3.9 | 14.5 | 14.0 |
| FMD5030T-R47M | 0.47 | 7.4 | 8.6 | 12.0 | 11.0 |
| FMD5030T-R68M | 0.68 | 11.0 | 12.0 | 11.5 | 9.0 |
| FMD5030T-1R0M | 1.0 | 13.0 | 14.0 | 11.0 | 8.5 |
| FMD5030T-1R2M | 1.2 | 15.0 | 16.0 | 11.0 | 8.5 |
| FMD5030T-1R5M | 1.5 | 20.0 | 25.0 | 8.5 | 8.2 |
| FMD5030T-2R2M | 2.2 | 25.0 | 29.0 | 7.5 | 7.0 |
| FMD5030T-3R3M | 3.3 | 32.0 | 38.0 | 6.0 | 5.5 |
| FMD5030T-4R7M | 4.7 | 50.0 | 60.0 | 5.0 | 4.5 |
| FMD5030T-6R8M | 6.8 | 75.0 | 90.0 | 4.0 | 3.5 |
| FMD5030T-100M | 10.0 | 110.0 | 125.0 | 3.5 | 3.2 |

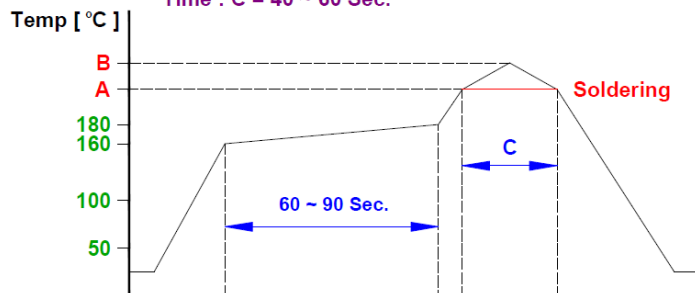
* Test Condition @100KHz , 1.0Vrms , 25°C Ambient

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

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

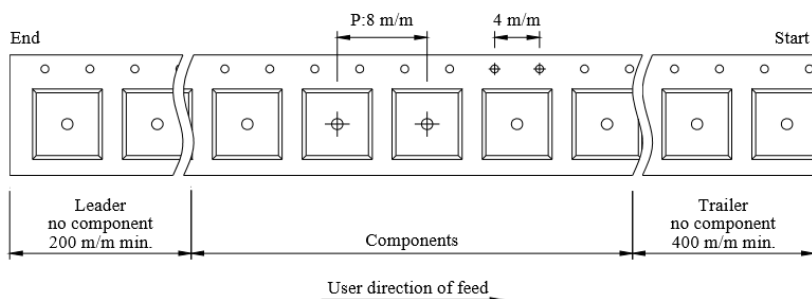
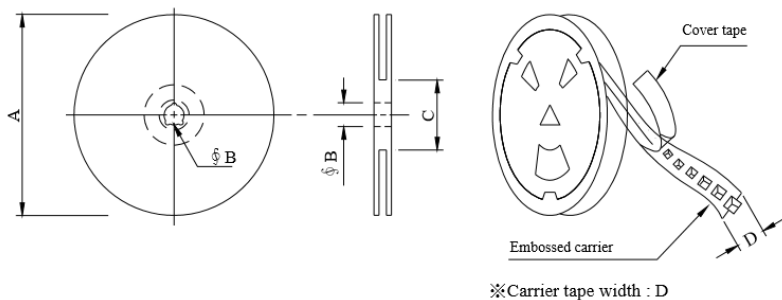
RECOMMENDED SOLDERING CONDITIONS

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 |
|-----------|-------|------|-------|------|-----------|
| 13-12 | 330mm | 13mm | 100mm | 12mm | 2000pcs |