

FMD6050 Series



FEATURES

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

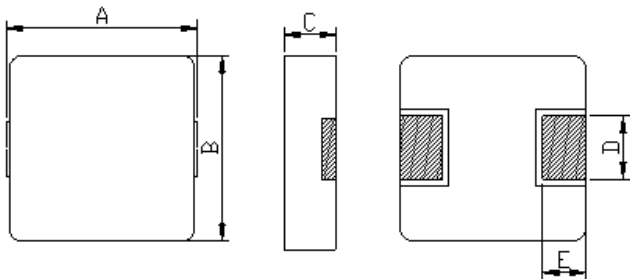
APPLICATIONS

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 | 800 pieces/reel |

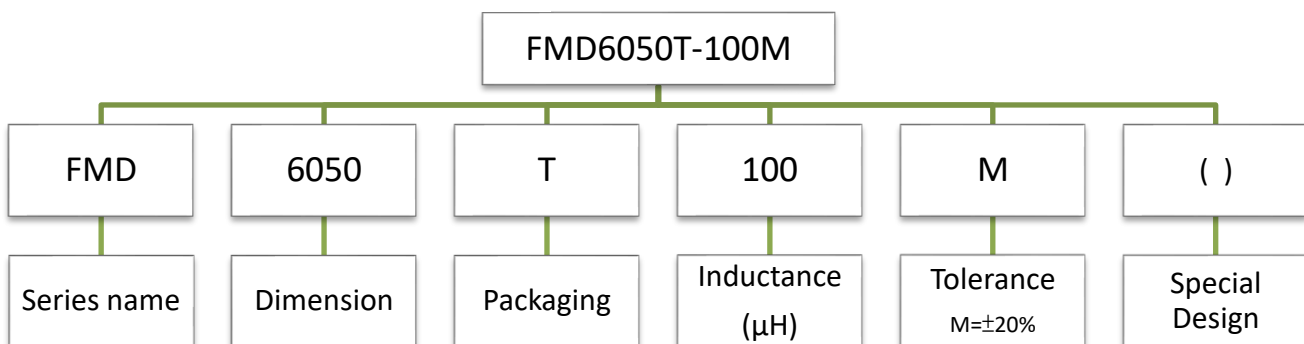
SHAPE AND DIMENSIONS (mm)



| ITEM | A/mm | B/mm | C/mm | D/mm | E/mm |
|------|--------|--------|--------|---------|---------|
| SPEC | 7.1max | 7.8max | 5.0max | 3.0±0.3 | 1.8±0.3 |

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

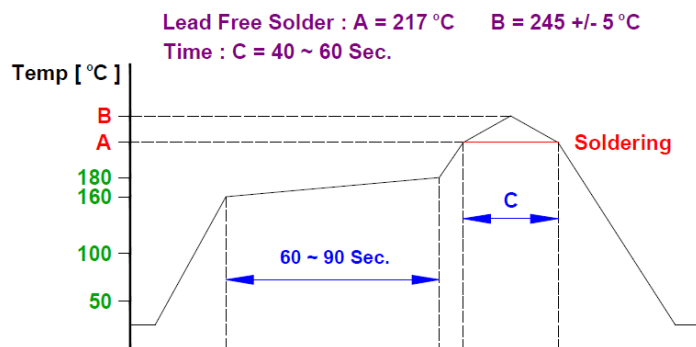
| Part No. | Inductance (μH) $\pm 20\%$ | RDC(m Ω) Typ. | RDC(m Ω) Max. | Isat(A) Typ. | Irms(A) Typ. |
|---------------|--|--------------------------|--------------------------|-----------------|-----------------|
| FMD6050T-R33M | 0.33 | 2.5 | 3.0 | 32.0 | 25.0 |
| FMD6050T-R40M | 0.40 | 3.1 | 3.7 | 31.0 | 23.0 |
| FMD6050T-R47M | 0.47 | 3.5 | 3.9 | 30.0 | 22.0 |
| FMD6050T-R56M | 0.56 | 3.6 | 4.2 | 27.0 | 20.0 |
| FMD6050T-R60M | 0.60 | 3.8 | 4.3 | 25.0 | 19.0 |
| FMD6050T-R68M | 0.68 | 4.0 | 4.3 | 24.0 | 18.0 |
| FMD6050T-R82M | 0.82 | 4.6 | 4.9 | 22.0 | 15.0 |
| FMD6050T-1R0M | 1.0 | 6.1 | 6.5 | 20.0 | 15.0 |
| FMD6050T-1R2M | 1.2 | 6.7 | 7.5 | 18.0 | 14.0 |
| FMD6050T-1R5M | 1.5 | 8.6 | 9.0 | 16.5 | 12.0 |
| FMD6050T-1R8M | 1.8 | 9.5 | 11 | 15.0 | 12.0 |
| FMD6050T-2R2M | 2.2 | 11.2 | 12 | 14.0 | 10.0 |
| FMD6050T-3R3M | 3.3 | 19 | 20.9 | 12.0 | 8.0 |
| FMD6050T-4R7M | 4.7 | 28 | 30.8 | 10.0 | 6.5 |
| FMD6050T-5R6M | 5.6 | 43.5 | 49 | 9.0 | 6.0 |
| FMD6050T-6R8M | 6.8 | 46 | 51.5 | 8.5 | 5.5 |
| FMD6050T-8R2M | 8.2 | 58 | 63 | 8.0 | 5.0 |
| FMD6050T-100M | 10 | 60 | 69 | 7.6 | 4.0 |
| FMD6050T-150M | 15 | 81 | 92 | 6.0 | 3.5 |
| FMD6050T-220M | 22 | 140 | 170 | 5.5 | 2.5 |
| FMD6050T-330M | 33 | 173 | 200 | 3.5 | 2.0 |

* 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

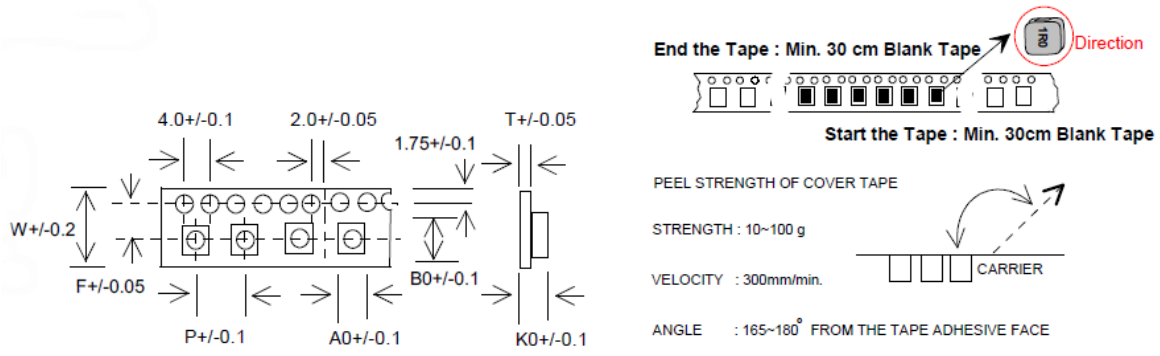
RECOMMENDED SOLDERING CONDITIONS



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

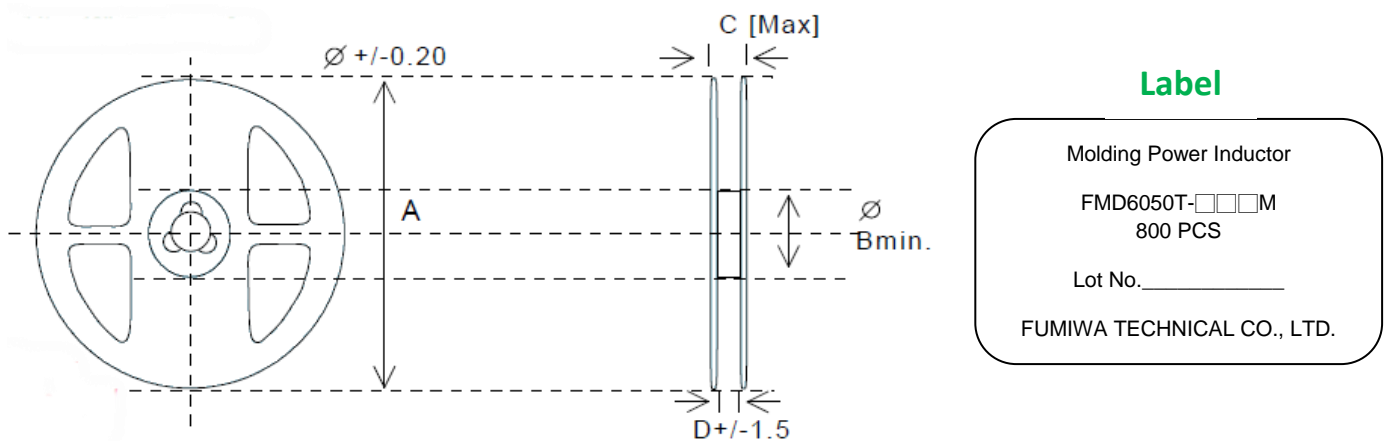
PACKAGE

(1) Taping specifications



| SIZE/mm | W | P | A0 | B0 | K0 | T | F |
|---------|-------|-------|-----|-----|------|------|------|
| 6050 | 16.00 | 12.00 | 8.0 | 8.0 | 3.50 | 0.40 | 7.50 |

(2) Reel Specifications



| SIZE/mm | A | B | C | D | REEL SIZE | Q'TY/REEL |
|---------|-----|-----|----|----|-----------|-----------|
| 6050 | 330 | 100 | 20 | 16 | 13" | 800 PCS |

(3) Box Package: Unit: cm

