

## FMD5030 Series



### FEATURES

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

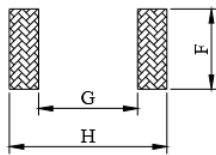
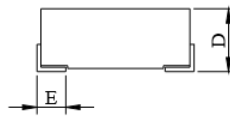
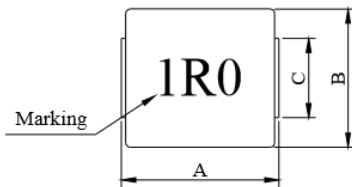
### APPLICATIONS

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	2000 pieces/reel

### SHAPE AND DIMENSIONS (mm)

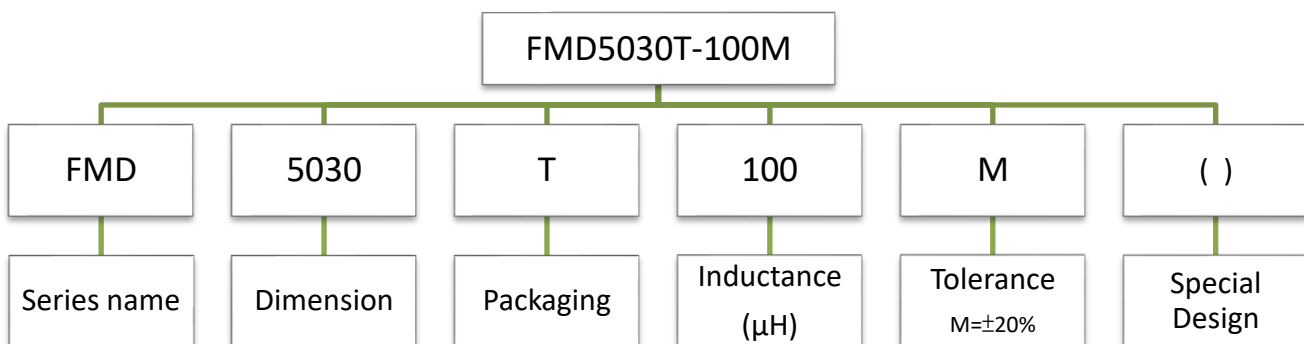


( PCB Pattern )

Item	Spec. (mm)
A	5.40 ± 0.30
B	5.20 ± 0.20
C	2.20 ± 0.30
D	2.80 ± 0.20
E	1.20 ± 0.20
F	2.50 ref.
G	2.20 ref.
H	6.00 ref.

### 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 ( $\mu\text{H}$ ) $\pm 20\%$	RDC(m $\Omega$ ) Typ.	RDC(m $\Omega$ ) 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

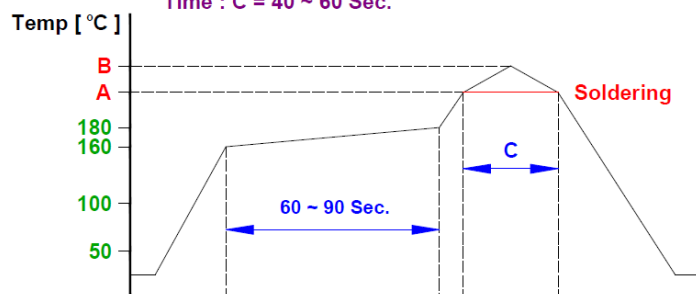
\* Test Condition @100KHz , 1.0Vrms , 25°C Ambient

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

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

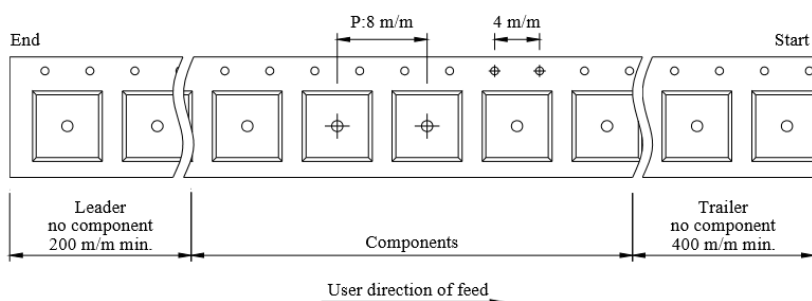
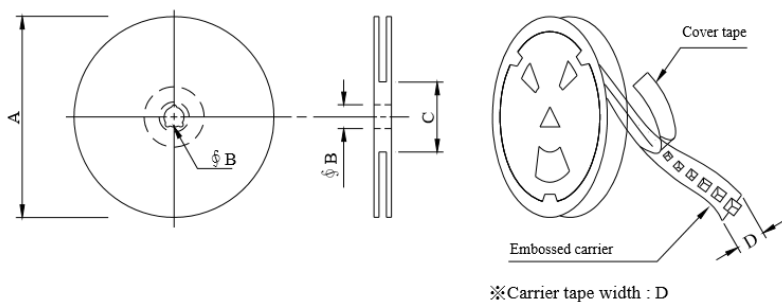
## RECOMMENDED SOLDERING CONDITIONS

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