

## FMD4020 Series



### FEATURES

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

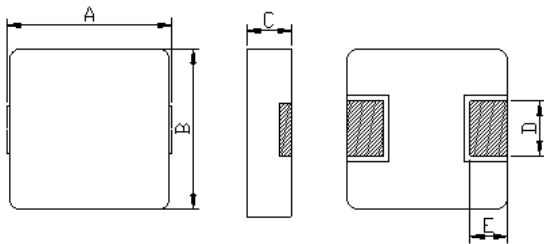
### APPLICATIONS

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

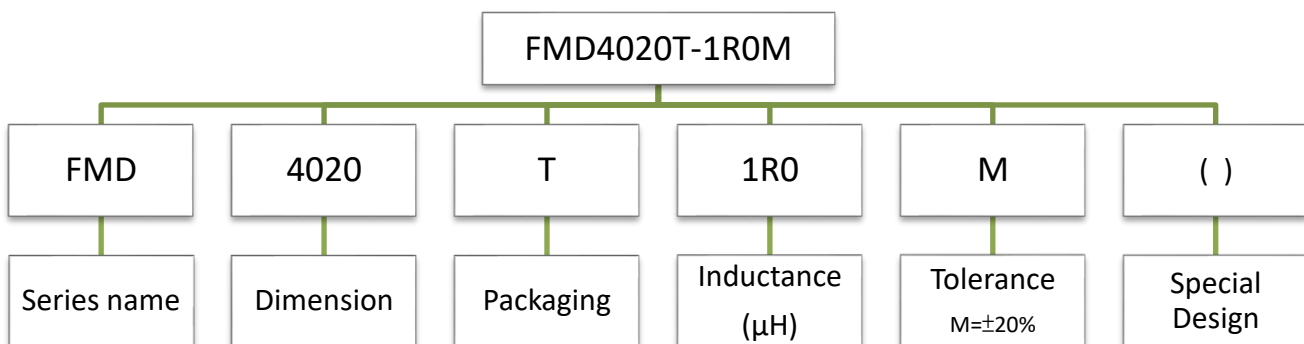
### SHAPE AND DIMENSIONS (mm)



ITEM	A/mm	B/mm	C/mm	D/mm	E/mm
SPEC	4.5±0.2	4.0±0.2	2.0max	1.5±0.3	1.0±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 condenses

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

## ELECTRICAL CHARACTERISTICS

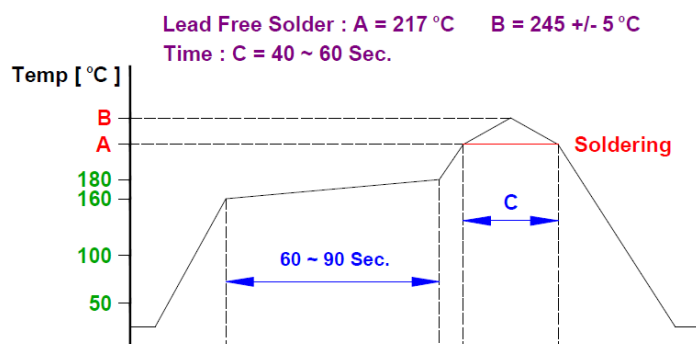
Part No.	Inductance	RDC(mΩ)		Isat(A)	Irms(A)
	( μH )±20%	Typ.	Max.	Typ.	Typ.
FMD4020T-R10M	0.10	3.5	4.0	22.0	12.0
FMD4020T-R22M	0.22	6.0	6.6	12.5	9.0
FMD4020T-R47M	0.47	12.5	14	9.5	7.0
FMD4020T-R56M	0.56	14	16	9.0	6.5
FMD4020T-1R0M	1.0	24	27	7.0	4.5
FMD4020T-1R2M	1.2	24	27	7.0	4.5
FMD4020T-1R5M	1.5	38	46	6.0	4.0
FMD4020T-2R2M	2.2	52	58	5.0	3.0
FMD4020T-3R3M	3.3	74	87	4.0	2.5
FMD4020T-4R7M	4.7	74	110	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

**End the Tape : Min. 30 cm Blank Tape** **Direction**

**Start the Tape : Min. 30cm Blank Tape**

PEEL STRENGTH OF COVER TAPE  
STRENGTH : 10~100 g

VELOCITY : 300mm/min.

ANGLE : 165~180° FROM THE TAPE ADHESIVE FACE

SIZE/mm	W	P	A0	B0	K0	T	F
4020	12.0	8.0	4.2	4.6	2.5	0.3	5.5

### (2) Reel Specifications

**Label**

Molding Power Inductor

FMD4020T-□□□M

2,000 PCS

Lot No. \_\_\_\_\_

FUMIWA TECHNICAL CO., LTD.

SIZE/mm	A	B	C	D	REEL SIZE	QTY/REEL
4020	330	100	16.6	16	13"	2000 PCS

### (3) Box Package: Unit: cm

**4 Reel in**  
34 34 7.5  
**Inner Small Box**

**3 Inner Small Box in**  
36 36 25  
**Outer Large Box**