

Revision Record					
Control No.	Revision	Description	Date	Drawn	Approved
	A0	I TMA -0530-4R7-M	2018/10/23	H	R
	A1	A TMA -0530-100-M	2018/10/29	H	R
	A2	A TMA -0530-1R0-M	2018/11/14	H	R
	A3	A TMA -0530-R33-M TMA -0530-R68-M TMA -0530-2R2-M TMA -0530-3R3-M TMA -0530-6R8-M	2018/11/21	H	R

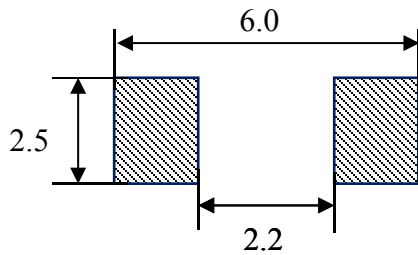


TMAX-0530-XXXXM Molded Power Inductor

Features

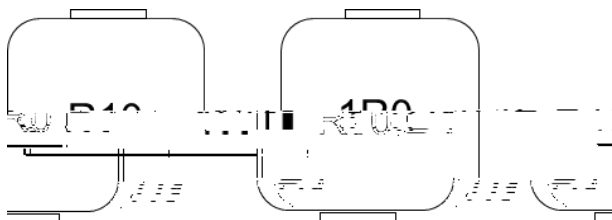
- L
- L DCR
- H D
- H (l )
- R HS -

## Recommend Land Pattern Dimensions



## Marking

- T 3-
- F : 1R0 1.0 H, R10 0.1 H.


Inductance:  
1.0 $\mu$ H

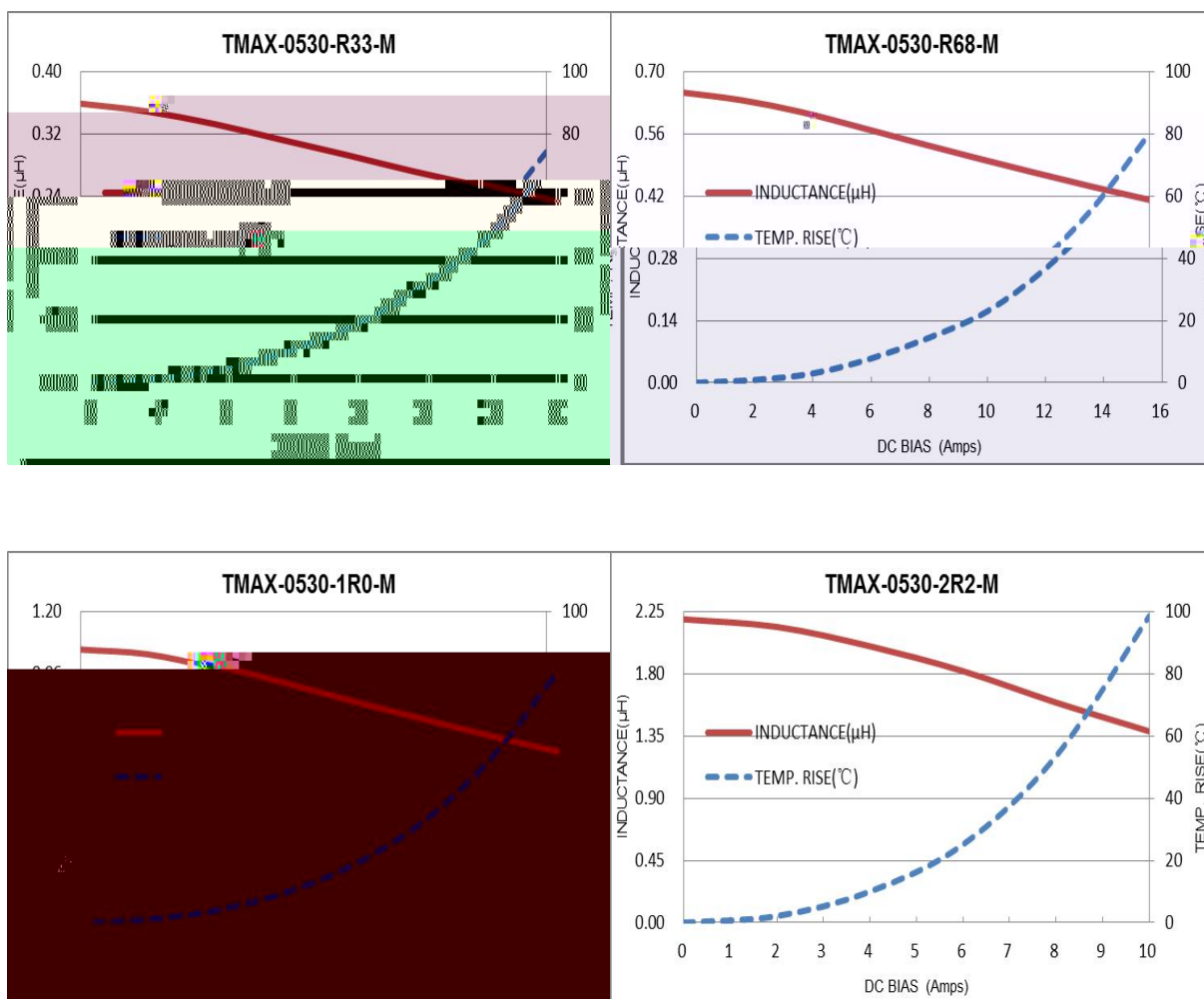
## Specifications

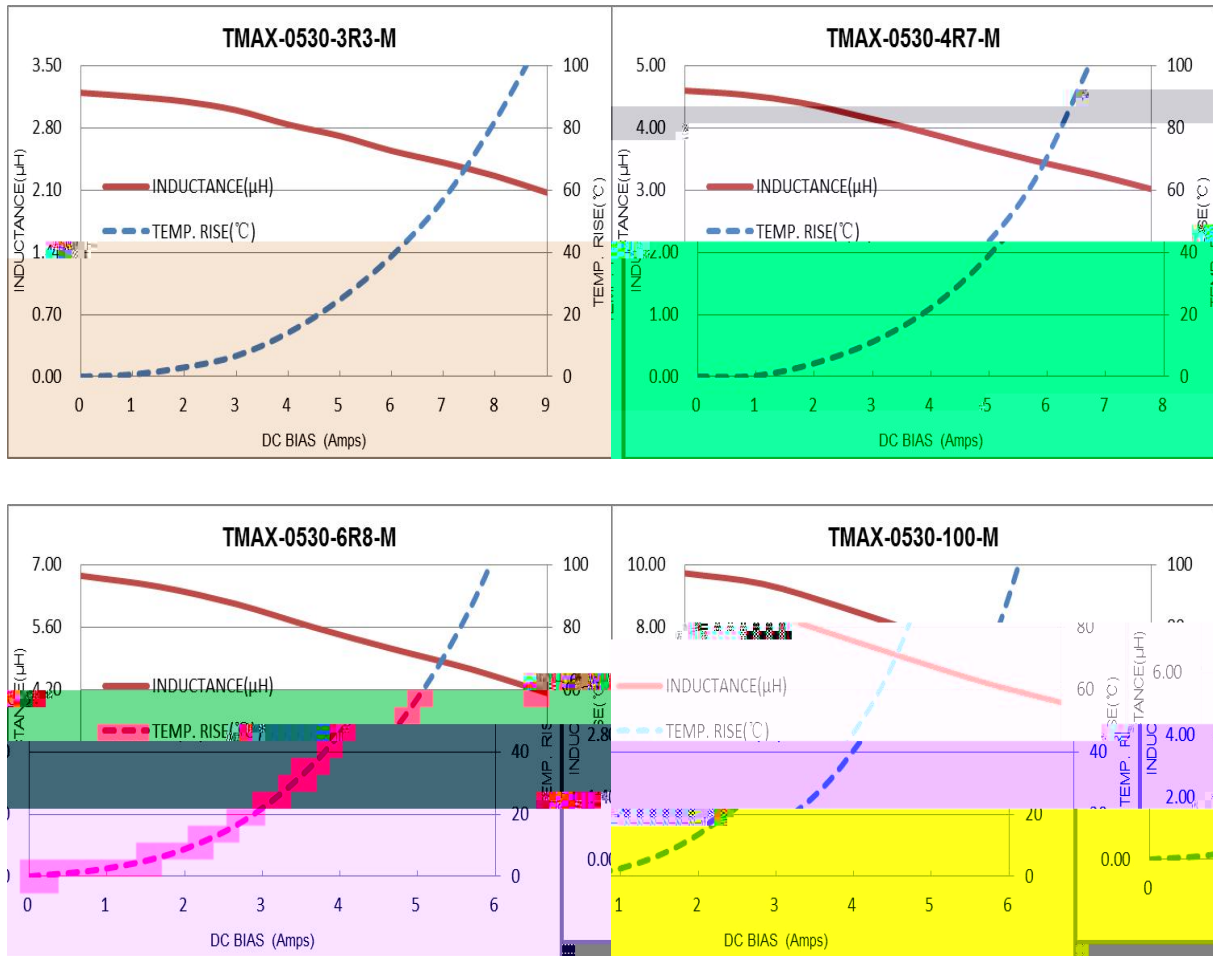
Part No.	Inductance		DCR (m $\Omega$ )		Saturation Current	Heat Rating Current
					Isat (Amps.)	Idc (Amps.)
	L <sub>0</sub> (H)	Tolerance	Typ.	Max.	Typ.	Typ.
TMA -0530-R33-M	0.33	20%	4.55	5.15	19	14
TMA -0530-R68-M	0.68	20%	9.0	10.0	13	11
TMA -0530-1R0-M	1.0	20%	12	13.5	11	9.0
TMA -0530-2R2-M	2.2	20%	25	29	9.0	6.5
TMA -0530-3R3-M	3.3	20%	33	38	8.0	5.5
TMA -0530-4R7-M	4.7	20%	51	60	6.0	4.5
TMA -0530-6R8-M	6.8	20%	80	90	4.5	3.5
TMA -0530-100-M	10.0	20%	110	125	4.0	3.0

**Notes:**

1. A 23 3 C 45%RH 70%RH
2. T I : 3260B LCR M , 3265B B C S (100 H ,1 ). EUCOL H8512
- DC L
3. O - 55 C + 125 C ( + - )
4. I : DC (A)  $L_0$  30 %.
5. I : DC (A) T 40 C.
6. T ( + ) 125 C
- . C , , P B , P
7. T

**Inductance and Temperature Rise vs. DC Current**





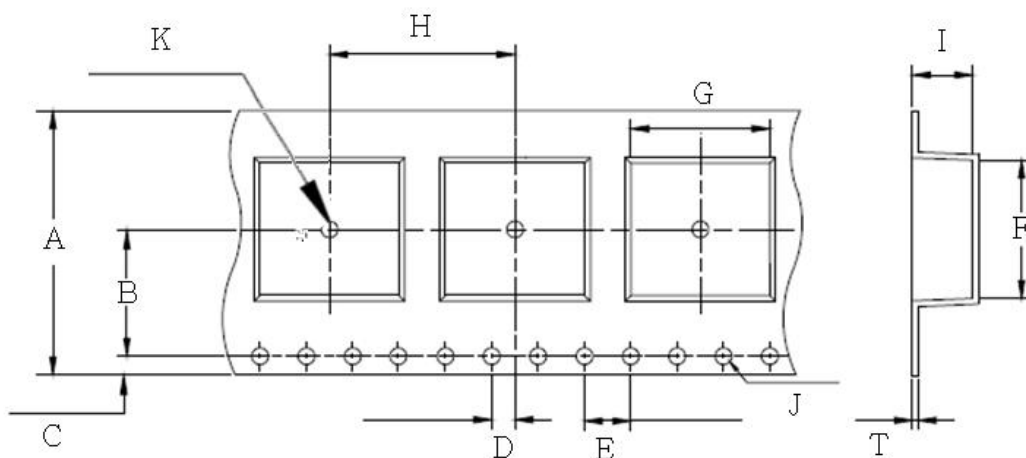
**Reliability:**

Item	Test Method	Specification and Requirement
S	S 1.P : 160 ± 10 C 90 2.R : 245 ± 5 °C 2 ± 0.5	T 95%
	1. (10 2. 3.A	L/L <sub>0</sub> ± 5% N
S	1.P : 100 G 2.D : 11 3.3 3	

**Reliability:**

Item	Test Method	Specification and Requirement
T S	1.R 100 : $(-55 \pm 2 \text{ C}, 30 \pm 3)$ $\rightarrow$ (R , 5 ) $\rightarrow$ $(+125 \pm 2 \text{ C}, 30$ $\pm 3)$ $\rightarrow$ (R , 5 ) 2.R : $48 + 4 / - 0$	L/L <sub>0</sub> $\pm 5\%$  N .
H T R	1.E T : $85 \pm 2 \text{ C}$ 2.A C : R 3.D : $1,000 + 4 / - 0$	
H R	1.E T : $60 \pm 2 \text{ C}$ 2.R H : 90 95% 3.D : $1,000 + 4 / - 0$	
L T S	1.S : $-55 \pm 2 \text{ C}$ $1,000 + 4 / - 0$	
H T S	1.S : $+125 \pm 2 \text{ C}$ $1,000 + 4 / - 0$	

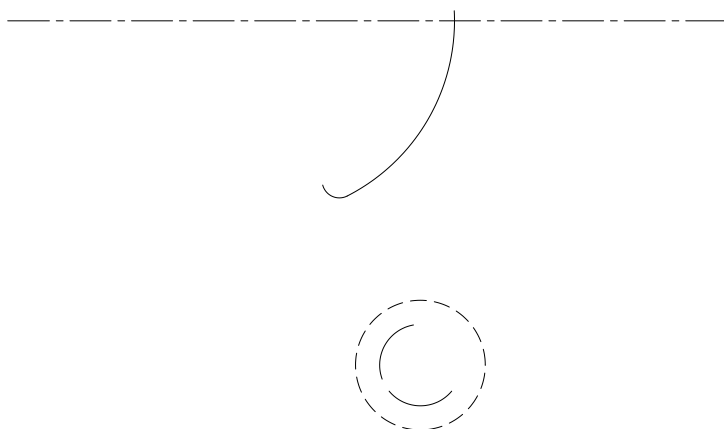
## Packaging Dimensions



G	F	I	T	H	A
$5.4 \pm 0.1$	$5.8 \pm 0.1$	$3.5 \pm 0.15$	$0.35 \pm 0.05$	$8.0 \pm 0.1$	$12 \pm 0.2$
J	K	D	E	B	C
$1.5 \pm 0.1$	$1.5 \pm 0.1$	$2.0 \pm 0.1$	$4.0 \pm 0.1$	$5.5 \pm 0.1$	$1.75 \pm 0.1$

## Reel Dimensions

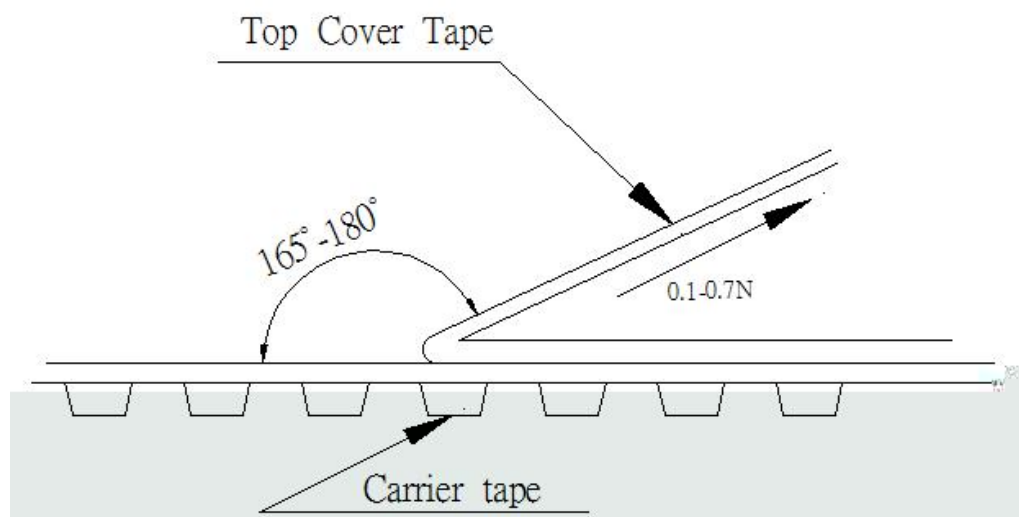
A	B	C
$12.5 \pm 0.2$	$2.0 \pm 0.2$	B



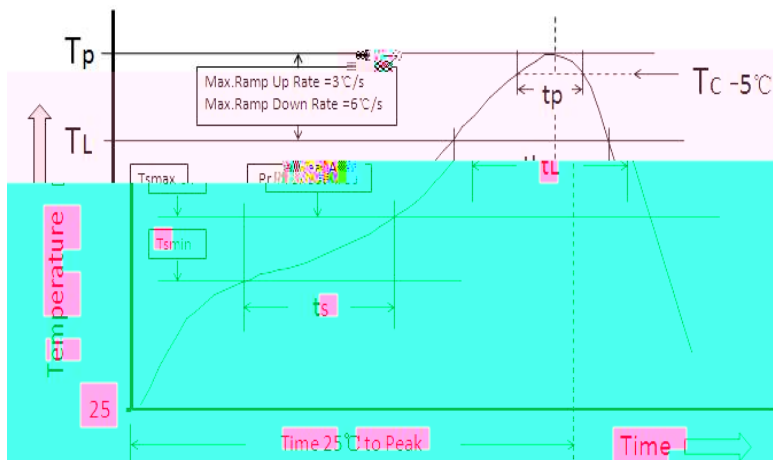


# Peeling of top cover tape

- T 300 / .
- T 0.1 0.7 N.



## Reflow Profile



**Table1-StandardSnPb Solder(Tc)**

<b>Package Thickness</b>	<b>Volume mm</b>
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**Numbers of taping**

- 2,000 /

**Label marking**

## Care note for Safety

➤ P A C

T

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