

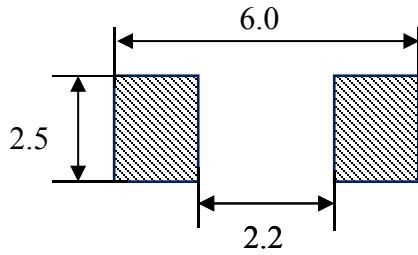
| Revision Record |          |  |            |       |          |
|-----------------|----------|--|------------|-------|----------|
| Control No.     | Revision | Description  | Date       | Drawn | Approved |
|                 | A0       | I<br>TMA -0530-4R7-M   | 2018/10/23 | H     | R        |
| 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



DCR

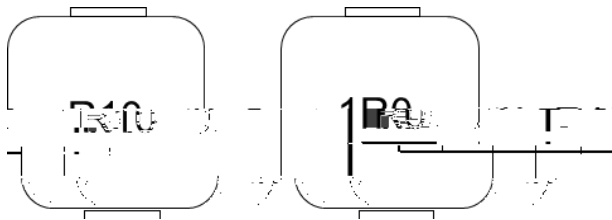
- H
- H (l )
- R HS 9

**Recommend Land Pattern Dimensions**



**Marking**

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



Inductance:  
1.0 $\mu$ H

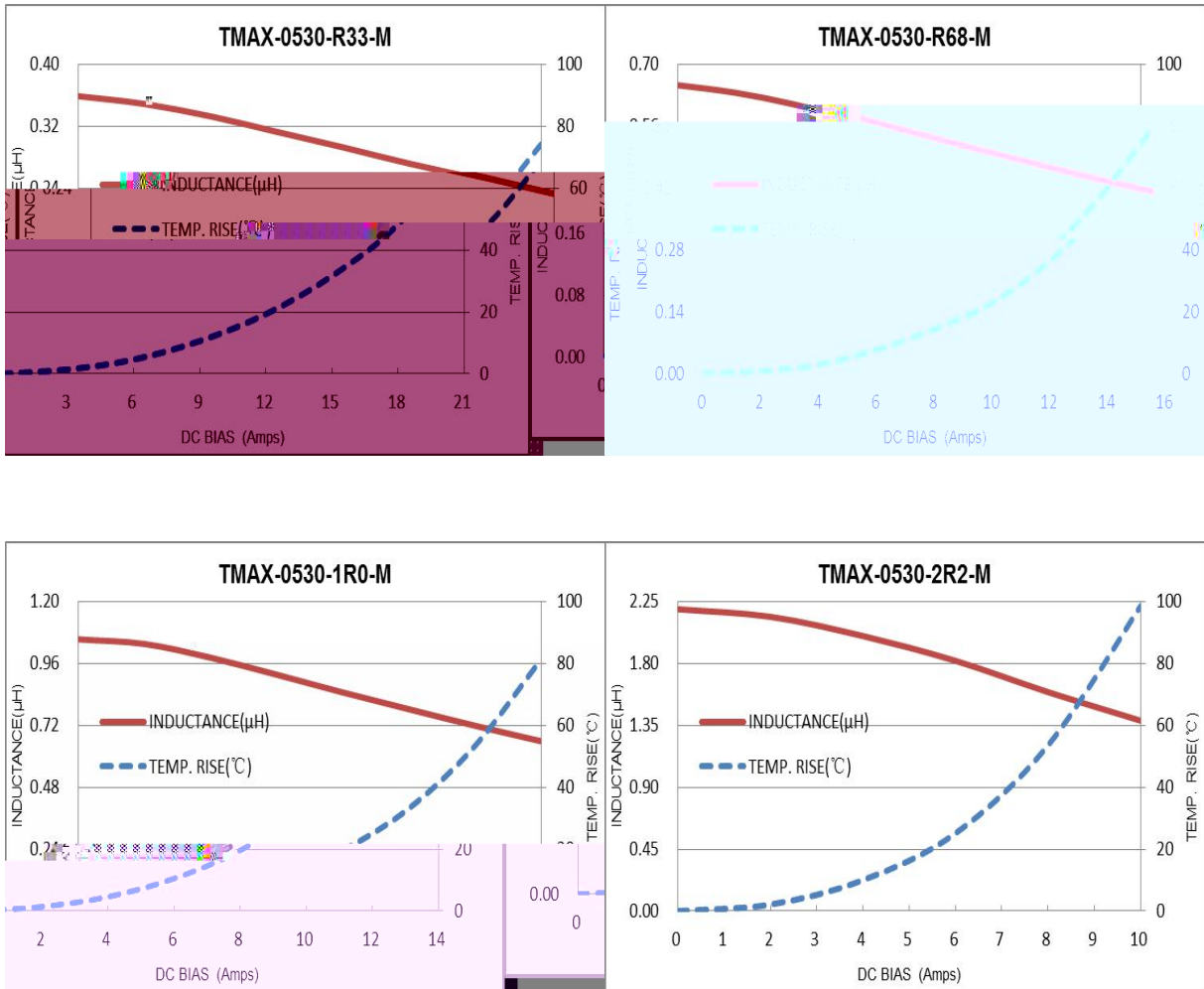
**Specifications**

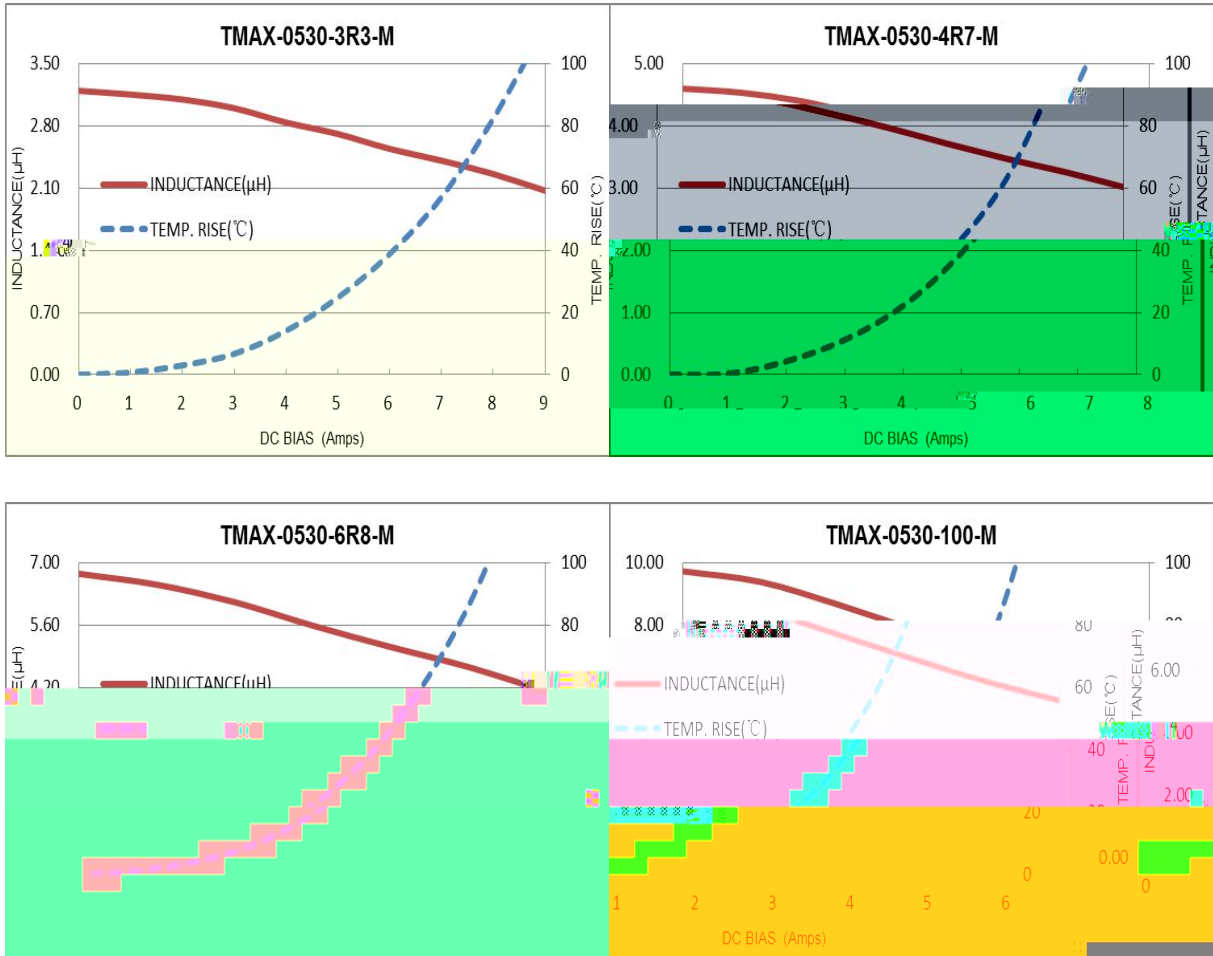
| Part No.        | Inductance                |           | DCR (m ) |      | Saturation Current | Heat Rating Current |
|-----------------|---------------------------|-----------|----------|------|--------------------|---------------------|
|                 | L <sub>0</sub> ( $\mu$ H) | Tolerance | Typ.     | Max. | Isat (Amps.)       | Idc (Amps.)         |
|                 |                           |           |          |      | 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 ), EUCGE-DC L
3. O - 55 C + 125 C ( + - )
4. I : DC (A) L<sub>0</sub> 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**





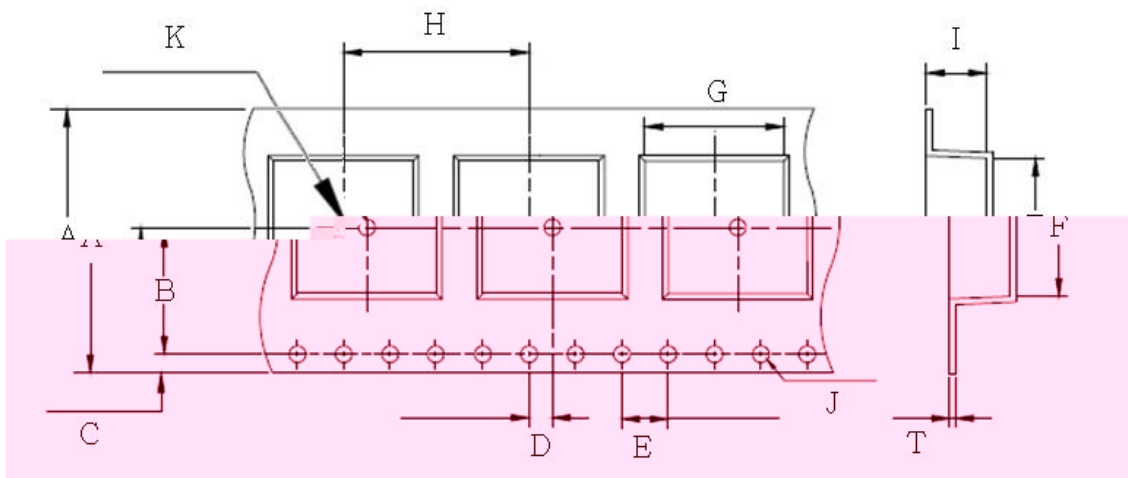
**Reliability:**

| Item | Test Method  | Specification and Requirement  |
|------|--|--------------------------------|
| S    | S :<br>1.P : 160 ± 10 C 90<br>2.R : 245 ± 5°C 2 ±<br>0.5 | T<br><br>95%                   |
|      | 1. (10H 55H 1)<br>2. 2<br>3.A : 1.5                      | L/L <sub>0</sub> ± 5%<br><br>N |
| S    | 1.P : 100 G<br>2.D : 11<br>3.3<br><br>3                  |                                |

**Reliability:**

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

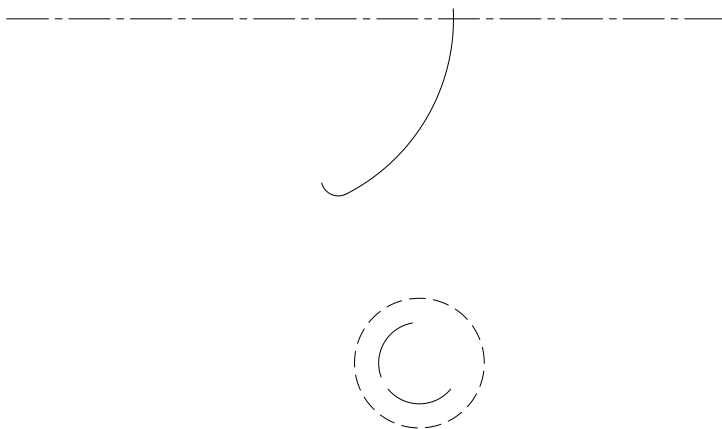
### Packaging Dimensions



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

### Reel Dimensions

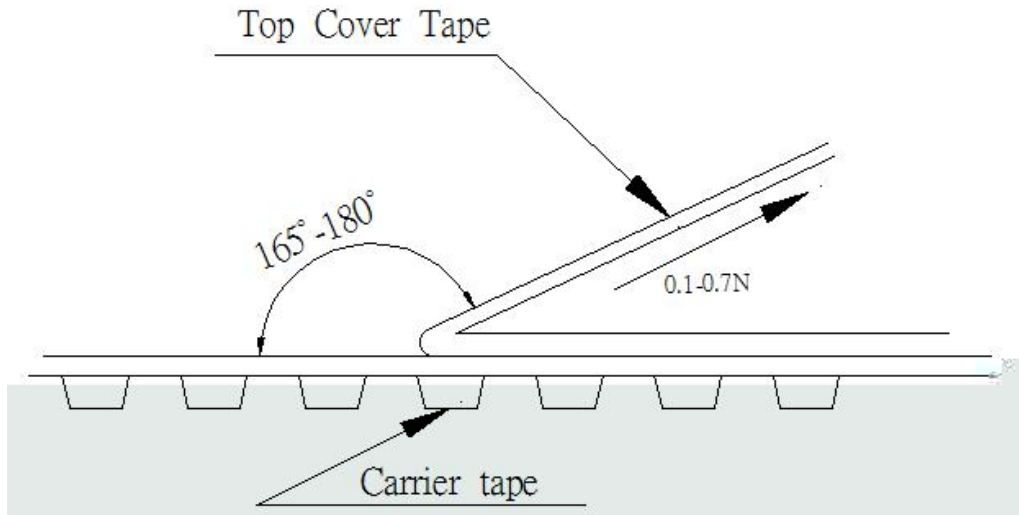
|            |           |   |
|------------|-----------|---|
| A          | B         | C |
| 12.5 ± 0.2 | 2.0 ± 0.2 | B |



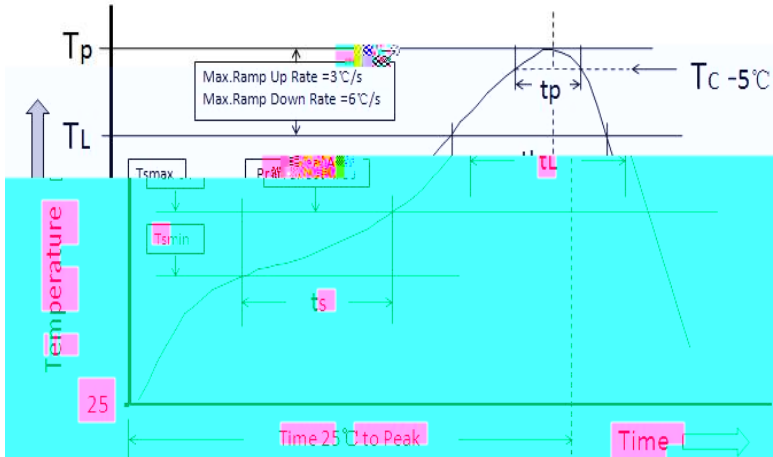


**Peeling of top cover tape**

- T 300 / .
- T 0.1 0.7 N.



**Reflow Profile**



**Table1-StandardSnPb Solder( $T_c$ )**

Package Thickness      Volume mm

apping

---

**Care note for Safety**

➤ P A C  
T

, - - , .T ,  
, ,  
, ,  
, .  
/ .

➤ T R  
T  
.I

➤ D S  
D

➤  
T

➤ P  
I

.P .

➤ D  
P

➤ N  
T

( , , ) ..TDG H C .,L .  
-  
.I ,