

### Power Choke Coil PIME104T type

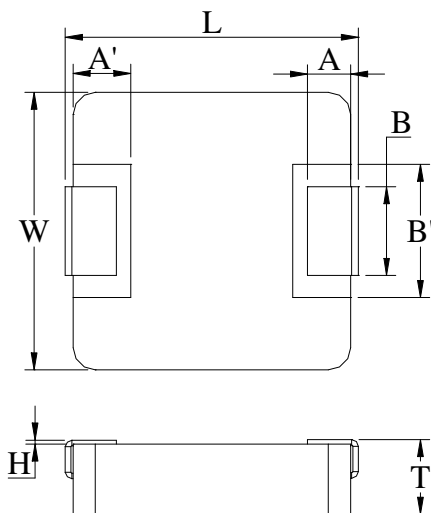
#### ■ Features

- High performance (Isat) realized by metal dust core.
- Low profile : Thickness max. 4.0mm
- Low loss realized with low DCR
- Capable of corresponding high frequency (3MHz)
- 100% lead (Pb) free meet RoHS standard

#### ■ Application

- DC/DC converter for CPU in Notebook PC
- Thin type on-board power supply module for exchanger VRM for server

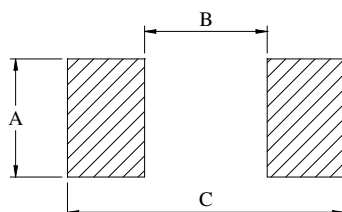
#### ■ Outline Dimensions



| Code | Dimensions (mm) |
|------|-----------------|
| L    | 11.15 ± 0.35    |
| W    | 10 ± 0.3        |
| T    | 3.8 ± 0.2       |
| A    | 2.0 ± 0.5       |
| A'   | 2.5 ± 0.1       |
| B    | 3.0 ± 0.5       |
| B'   | 5.0 ± 0.2       |
| H    | 0 ~ +0.15       |

#### ■ Recommend Land Pattern Dimensions

The customer shall determine the land dimensions shown above after confirming and safety.



|   |      |
|---|------|
| A | 4.1  |
| B | 5.4  |
| C | 13.6 |

Unit : mm

■ Specifications

| Part Number         | L0 Inductance<br>( $\mu\text{H}$ )<br>@ (0A) | $R_{dc}$ ( $\text{m}\Omega$ ) | Heat Rating Current<br>DC Amps. Idc ( A ) | Saturation Current<br>DC Amps. Isat ( A ) |
|---------------------|--|-------------------------------|---|---|
|                     |  |                               | Typical                                   | Typical                                   |
| PIME104T-R36MS0R765 | 0.36   | $0.76 \pm 5\%$                | 40.0                                      | 40.0                                      |
| PIME104T-R36MS0R825 | 0.36   | $0.82 \pm 5\%$                | 37.0                                      | 40.0                                      |
| PIME104T-R45MS1R007 | 0.45   | $1.0 \pm 7\%$                 | 35.0                                      | 38.0                                      |
| PIME104T-R56MS1R407 | 0.56   | $1.4 \pm 7\%$                 | 30.0                                      | 35.0                                      |
| PIME104TR68MS1R607  | 0.68   | $1.6 \pm 7\%$                 | 28.0                                      | 33.0                                      |
| PIME104T-R88MS2R307 | 0.88   | $2.3 \pm 7\%$                 | 27.0                                      | 32.0                                      |
| PIME104T1R0MS2R307  | 1.0  | $2.3 \pm 7\%$                 | 25.0                                      | 30.0                                      |

\* : If you require another part number please contact with us.

\*\* : Inductance Tolerance  $\pm 20\%$

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Test Condition:100KHz, 1.0Vrms

Note 3. : Idc : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

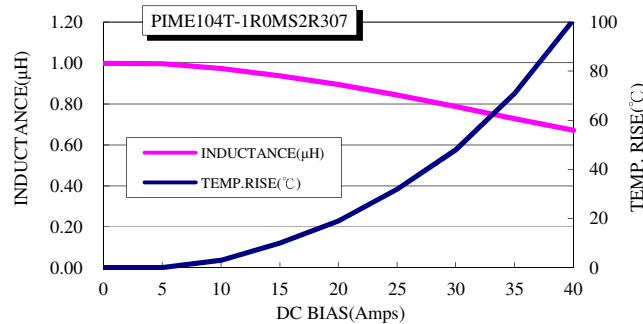
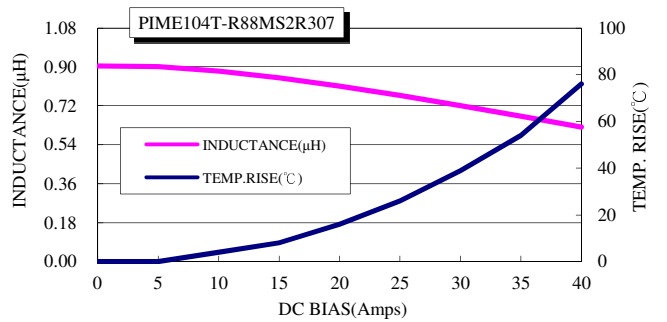
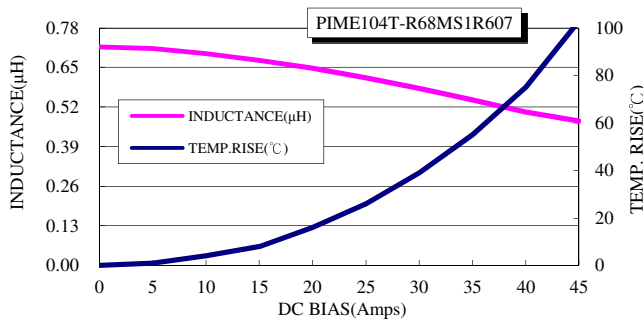
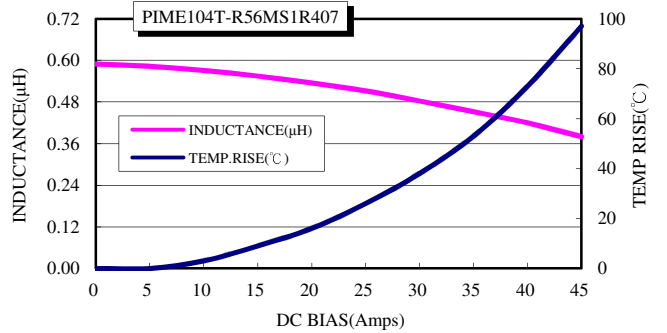
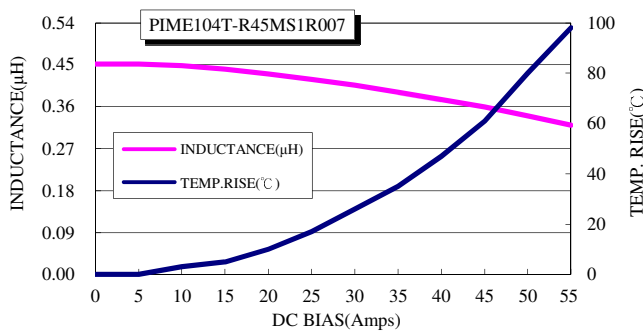
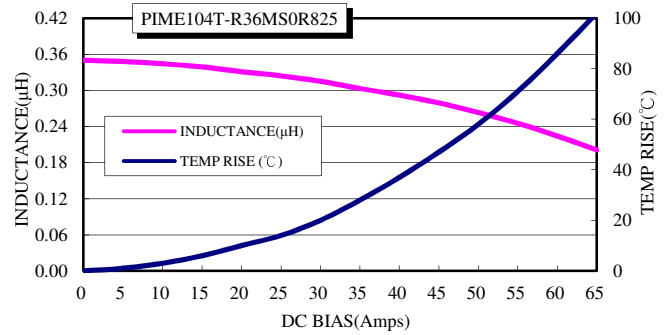
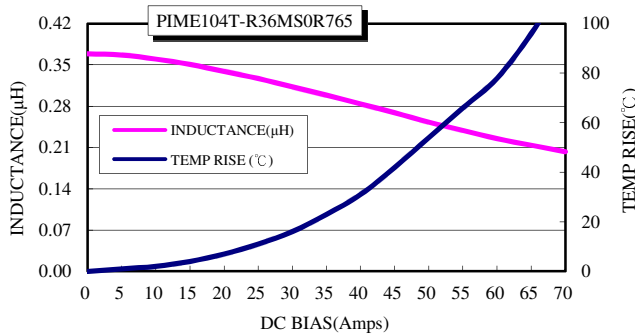
Note 4. : Isat : DC current (A) that will cause Lo to drop approximately 30%

Note 5. : Operating Temperature Range -55°C to + 125°C

Note 6. : The part temperature (ambient + temp rise ) should not exceed 125°C under worse case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

### Current Characteristic



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