

# Large-Current Choke Coils C·PI Series

[RoHS Compliant]



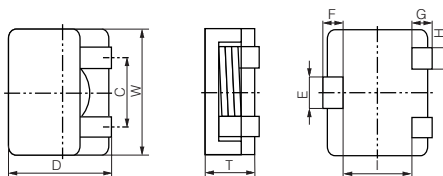
• Precautions (see page 93)

| Model          | Inductance<br>( $\mu$ H)<br>at DC 0A, 100kHz | DC resistance<br>(m $\Omega$ ) max. | Rated current (A)<br>I <sub>rms</sub> *1<br>(Ref.) | I <sub>sat</sub> *2<br>(Ref.) |
|----------------|----------------------------------------------|-------------------------------------|----------------------------------------------------|-------------------------------|
| C·PI-1050-0R6S | 0.55 $\pm$ 30%                               | 1.7(1.4)                            | 19.0                                               | 17.0                          |
| C·PI-1050-1R0S | 1.0 $\pm$ 30%                                | 2.9(2.5)                            | 16.0                                               | 15.0                          |
| C·PI-1050-1R6S | 1.6 $\pm$ 30%                                | 4.0(3.5)                            | 13.0                                               | 13.0                          |
| C·PI-1050-2R2S | 2.2 $\pm$ 30%                                | 6.3(5.4)                            | 11.0                                               | 12.0                          |
| C·PI-1050-2R7S | 2.7 $\pm$ 30%                                | 12.6(10.5)                          | 9.0                                                | 10.0                          |
| C·PI-1250-0R6S | 0.55 $\pm$ 30%                               | 1.2(0.9)                            | 25.0                                               | 26.0                          |
| C·PI-1350-0R7S | 0.7 $\pm$ 30%                                | 1.5(1.3)                            | 24.0                                               | 30.0                          |
| C·PI-1350-1R2S | 1.2 $\pm$ 30%                                | 2.5(2.1)                            | 19.0                                               | 17.0                          |
| C·PI-1365-0R7S | 0.7 $\pm$ 30%                                | 1.3(1.1)                            | 26.0                                               | 30.0                          |
| C·PI-1365-1R2S | 1.2 $\pm$ 30%                                | 1.7(1.5)                            | 24.0                                               | 25.0                          |
| C·PI-1365-3R0S | 2.7 $\pm$ 30%                                | 5.7(4.75)                           | 13.0                                               | 13.0                          |

\*1 T=40K rise at rated current. \*2 Inductance drop 20% at rated current.

● Operating temperature range : -20to+120°C(Includes self-temperature rise)

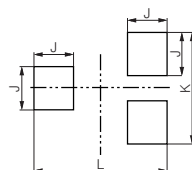
## Shape and Dimensions



| Model            | W    | D    | C   | T        | E   | F   | G   | H   | I   |
|------------------|------|------|-----|----------|-----|-----|-----|-----|-----|
| C·PI-1050 Series | 10.4 | 10.0 | 6.0 | 5.0 max. | 1.8 | 1.3 | 2.0 | 1.4 | 6.2 |
| C·PI-1250 Series | 13.3 | 12.5 | 8.3 | 5.0 max. | 2.4 | 2.2 | 2.4 | 2.4 | 7.8 |
| C·PI-1350 Series | 14.0 | 13.5 | 8.5 | 5.0 max. | 2.4 | 2.2 | 2.5 | 2.0 | 8.5 |
| C·PI-1365 Series | 14.0 | 13.5 | 8.5 | 6.5 max. | 2.4 | 2.2 | 2.5 | 2.0 | 8.5 |

[mm]

## Recommended Land Pattern



| Model            | J   | K    | L    |
|------------------|-----|------|------|
| C·PI-1050 Series | 3.5 | 10.1 | 11.5 |
| C·PI-1250 Series | 4.0 | 11.8 | 13.4 |
| C·PI-1350 Series | 4.0 | 12.3 | 15.2 |
| C·PI-1365 Series | 4.0 | 12.3 | 15.2 |

[mm]

## Numbering System

**C·PI - 1350 - 0R7**

① ② ③

① Series

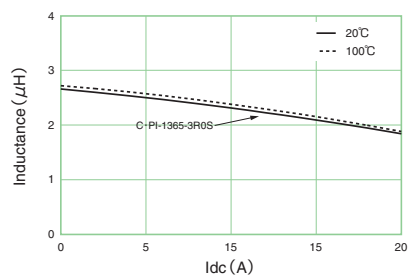
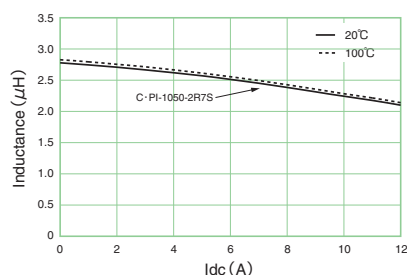
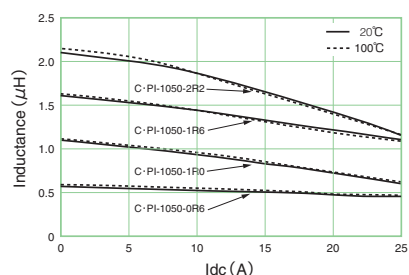
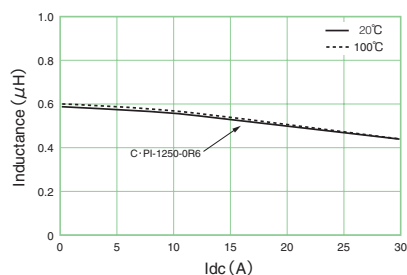
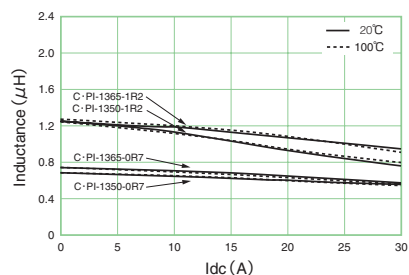
② Dimensions 13...W×D : 14.0×13.5 mm 50...H : 5.0 mm

③ Inductance 0R7...0.7  $\mu$ H



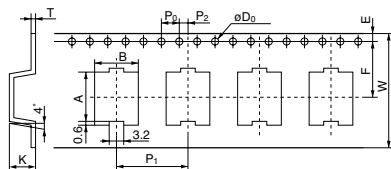
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## DC-Superposed Characteristics



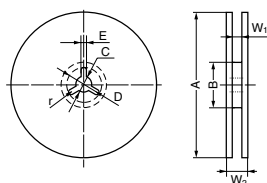
## C•PI-1050 Series (1000pcs./reel)

## Dimensions of indented square hole plastic tape



| [mm] |      |      |      |      |                |                |                |                 |      |      |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|------|------|
| A    | B    | W    | F    | E    | P <sub>1</sub> | P <sub>2</sub> | P <sub>0</sub> | øD <sub>0</sub> | T    | K    |
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2           | ±0.2           | ±0.2           | +0.2,-0         | ±0.1 | ±0.2 |
| 10   | 10.5 | 24   | 11.5 | 1.75 | 16             | 2.0            | 4.0            | 1.5             | 0.4  | 5.9  |

## Reel dimensions



| [mm] |      |      |      |      |      |                |                |
|------|------|------|------|------|------|----------------|----------------|
| A    | B    | C    | D    | E    | r    | W <sub>1</sub> | W <sub>2</sub> |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 |      |                |                |
| 380  | 100  | 13   | 21   | 2.0  | R1.0 | 25.5           | 28.5           |

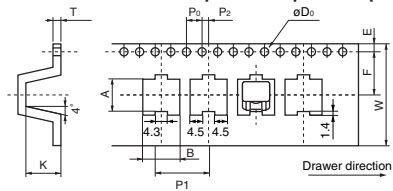
Choke Coils VOL.07



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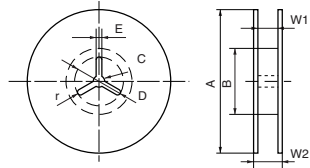
C•PI-1250 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] |      |      |      |      |                |                |                |                 |      |      |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|------|------|
| A    | B    | W    | F    | E    | P <sub>1</sub> | P <sub>2</sub> | P <sub>0</sub> | øD <sub>0</sub> | T    | K    |
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2           | ±0.2           | ±0.2           | +0.2,-0         | ±0.1 | ±0.2 |
| 13.3 | 13.3 | 24.0 | 11.5 | 1.75 | 24.0           | 2.0            | 4.0            | 1.5             | 0.4  | 5.4  |

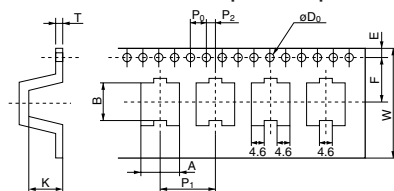
Reel dimensions



| [mm] |      |      |      |      |      |                |                |
|------|------|------|------|------|------|----------------|----------------|
| A    | B    | C    | D    | E    | r    | W <sub>1</sub> | W <sub>2</sub> |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 |      |                |                |
| 380  | 100  | 13.0 | 21.0 | 2.0  | R1.0 | 25.5           | 28.5           |

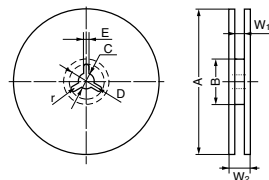
C•PI-13•• Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm]  |      |      |      |      |                |                |                |                 |      |      |
|-------|------|------|------|------|----------------|----------------|----------------|-----------------|------|------|
| A     | B    | W    | F    | E    | P <sub>1</sub> | P <sub>2</sub> | P <sub>0</sub> | øD <sub>0</sub> | T    | K    |
| ±0.2  | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2           | ±0.2           | ±0.2           | +0.2,-0         | ±0.1 | ±0.2 |
| 14.65 | 14.1 | 24.0 | 11.5 | 1.75 | 24.0           | 2.0            | 4.0            | 1.5             | 0.4  | 6.8  |

Reel dimensions



| [mm] |      |      |      |      |      |                |                |
|------|------|------|------|------|------|----------------|----------------|
| A    | B    | C    | D    | E    | r    | W <sub>1</sub> | W <sub>2</sub> |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 |      |                |                |
| 380  | 100  | 13   | 21   | 2.0  | R1.0 | 25.5           | 28.5           |



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