

## ■ Features

- Ultra low profile.
- Magnetic shielded for low radiation.
- Bobbin ferrite core and compact size.
- Low core loss for high frequency power application.
- Large terminal surface for good PCB bonding.
- Operating temperature:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ .

## ■ Applications

- Portable communication equipment.
- Notebook PC, digital camera, LCD television set.
- Power supply for VTR, OA equipment.
- DC/DC converters.

## ■ Product Identification

|             |             |   |            |          |
|-------------|-------------|---|------------|----------|
| <u>XRRH</u> | <u>□□□□</u> | — | <u>□□□</u> | <u>M</u> |
| (1)         | (2)         |   | (3)        | (4)      |

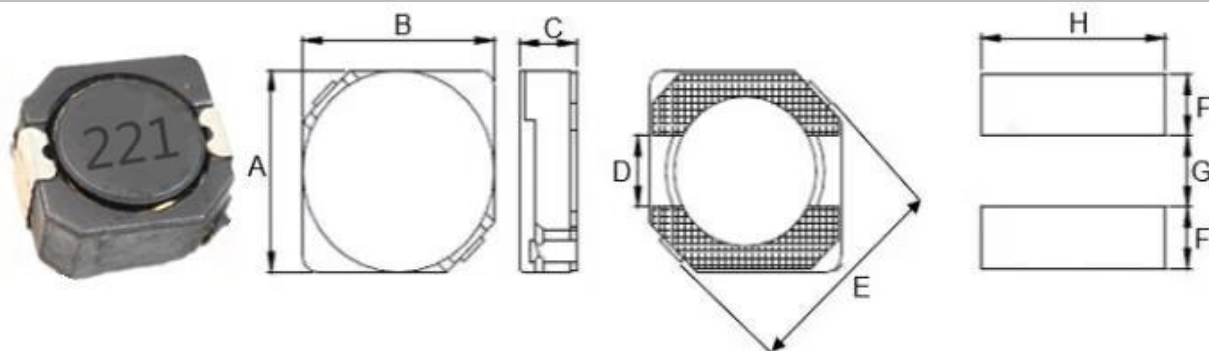
(1) : Type

(2) : Dimensions

(3) : Inductance value

(4) : Inductance Tolerance;  $M=\pm 20\%$

#### ■ Shapes and Dimensions (Unit: mm)



| TYPE     | A       | B       | C max. | D    | E   | F Ref. | G Ref. | H Ref. |
|----------|---------|---------|--------|------|-----|--------|--------|--------|
| XRRH5D28 | 5.7±0.3 | 5.7±0.3 | 3.0    | 2.00 | 8.2 | 2.15   | 2.0    | 6.3    |

#### ■ XRRH5D28 Series

| Part Number   | Inductance (uH) | Test Freq.(KHz) | DCR MAX.(Ω) | Rated Current (A) |
|---------------|-----------------|-----------------|-------------|-------------------|
| XRRH5D28-1R0M | 1.0             | 100             | 0.015       | 2.80              |
| XRRH5D28-1R0M | 1.2             | 100             | 0.018       | 2.70              |
| XRRH5D28-2R2M | 2.2             | 100             | 0.023       | 2.60              |
| XRRH5D28-3R3M | 3.3             | 100             | 0.029       | 2.40              |
| XRRH5D28-4R7M | 4.7             | 100             | 0.036       | 2.10              |
| XRRH5D28-5R6M | 5.6             | 100             | 0.038       | 1.90              |
| XRRH5D28-6R8M | 6.8             | 100             | 0.048       | 1.80              |
| XRRH5D28-8R2M | 8.2             | 100             | 0.053       | 1.60              |
| XRRH5D28-100M | 10.0            | 100             | 0.065       | 1.30              |
| XRRH5D28-120M | 12.0            | 100             | 0.076       | 1.20              |
| XRRH5D28-150M | 15.0            | 100             | 0.103       | 1.10              |
| XRRH5D28-180M | 18.0            | 100             | 0.110       | 1.00              |
| XRRH5D28-220M | 22.0            | 100             | 0.122       | 0.90              |
| XRRH5D28-270M | 27.0            | 100             | 0.175       | 0.85              |
| XRRH5D28-330M | 33.0            | 100             | 0.189       | 0.75              |

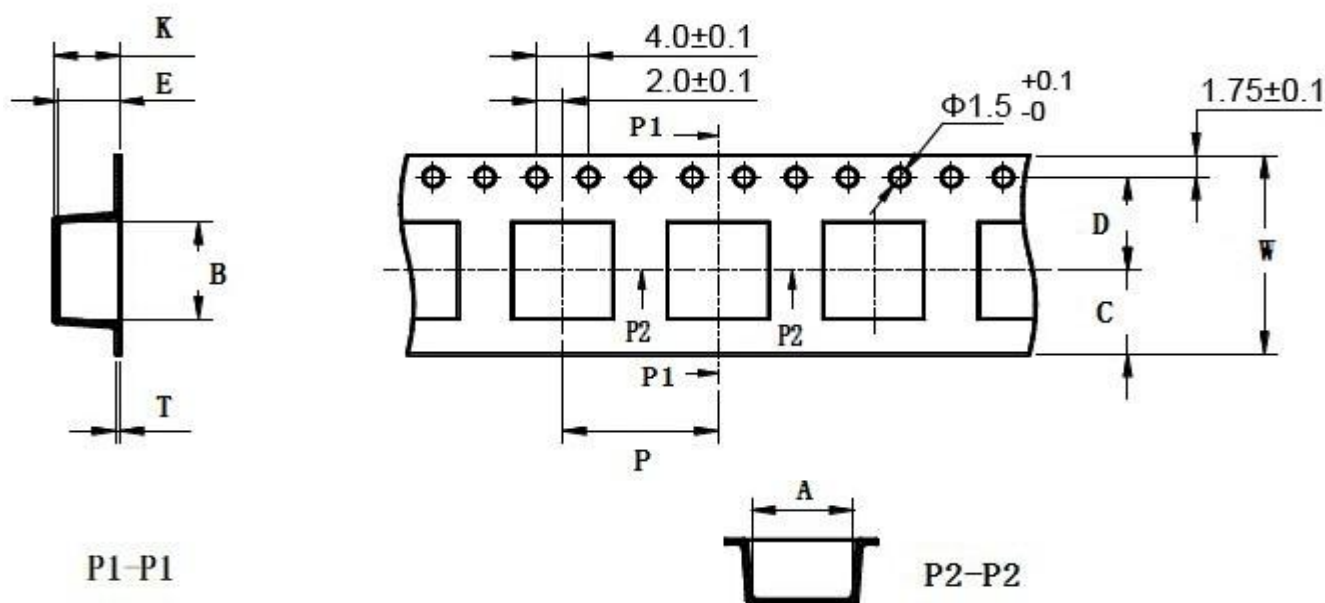
| Part Number   | Inductance (uH) | Test Freq.(KHz) | DCR MAX.(Ω) | Rated Current (A) |
|---------------|-----------------|-----------------|-------------|-------------------|
| XRRH5D28-390M | 39.0            | 100             | 0.212       | 0.70              |
| XRRH5D28-470M | 47.0            | 100             | 0.260       | 0.62              |
| XRRH5D28-560M | 56.0            | 100             | 0.305       | 0.58              |
| XRRH5D28-680M | 68.0            | 100             | 0.355       | 0.52              |
| XRRH5D28-820M | 82.0            | 100             | 0.463       | 0.46              |
| XRRH5D28-101M | 100             | 100             | 0.520       | 0.42              |
| XRRH5D28-121M | 120             | 100             | 0.560       | 0.40              |
| XRRH5D28-151M | 150             | 100             | 0.680       | 0.35              |
| XRRH5D28-181M | 180             | 100             | 0.930       | 0.32              |
| XRRH5D28-221M | 220             | 100             | 1.150       | 0.30              |
| XRRH5D28-271M | 270             | 100             | 1.560       | 0.27              |
| XRRH5D28-331M | 330             | 100             | 1.980       | 0.25              |

※ The saturation current value is the DC current value having inductance decrease down to 30%.(at 20℃)

※ The temperature rise current value is the DC current value having temperature increase up to 40℃. (at 20℃)

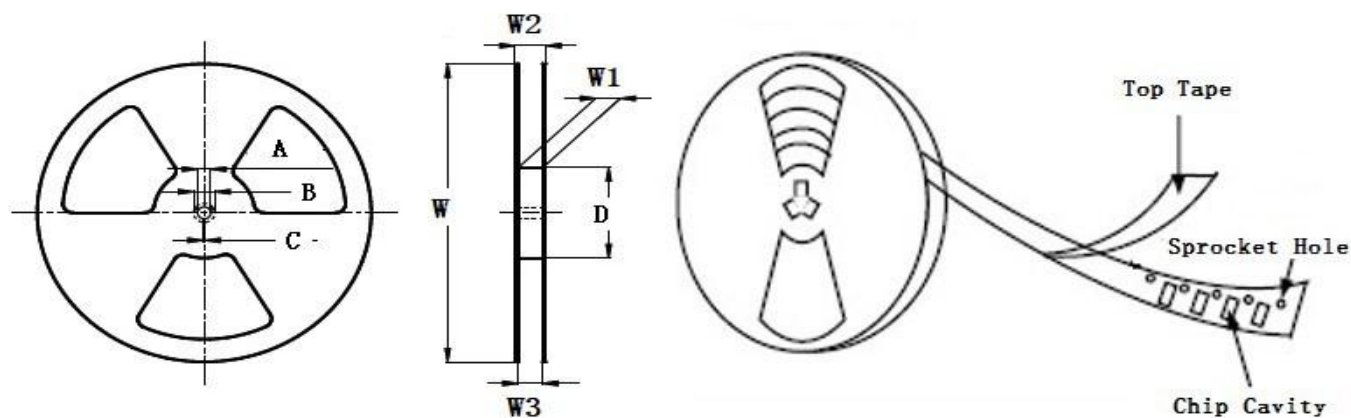
※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

#### ■ Taping Dimensions(Unit:mm)



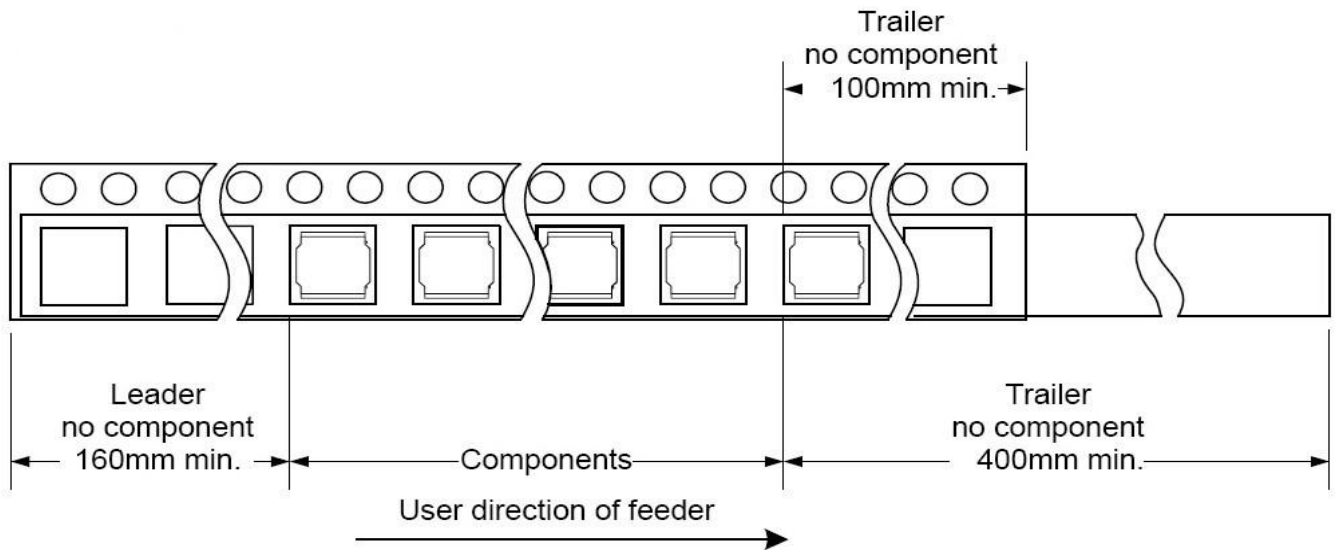
| TYPE     | W      | A        | B        | C    | D       | E        | P      | K Ref | T         | MPQ  |
|----------|--------|----------|----------|------|---------|----------|--------|-------|-----------|------|
| XRRH5D28 | 16±0.3 | 6.20±0.1 | 6.20±0.1 | 6.75 | 7.5±0.1 | 2.80±0.1 | 12±0.1 | 3.00  | 0.30±0.05 | 2000 |

#### ■ Reel Dimensions(Unit:mm)

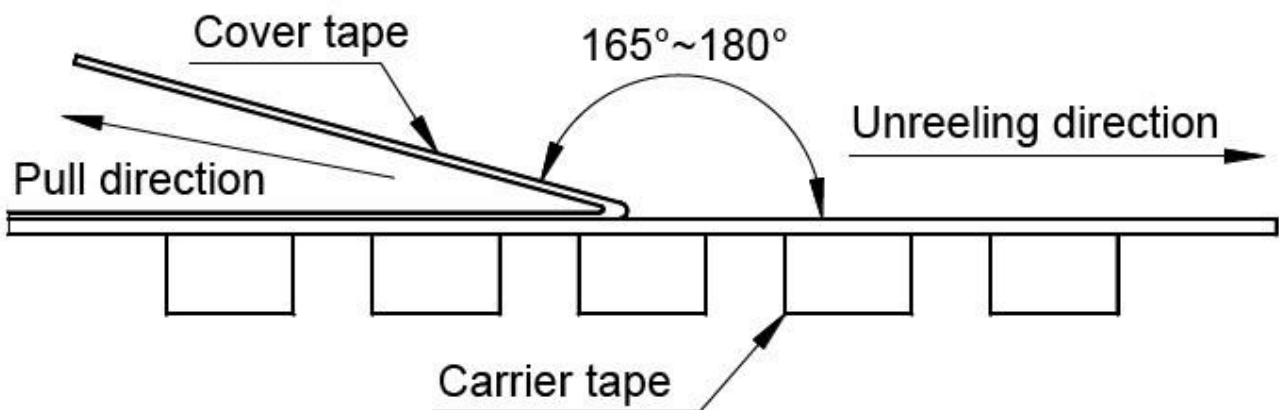


| TYPE     | W       | W1       | W2       | W3       | A         | B         | C        | D       |
|----------|---------|----------|----------|----------|-----------|-----------|----------|---------|
| XRRH5D28 | 330±2.0 | 16.4±2.0 | 22.4 Max | 15.9 Min | 13.0±0.50 | 21.0±0.80 | 2.0±0.50 | 100 Min |

## Direction of rolling



## Cover tape peel off condition



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed  $300 \pm 10$  mm/min.