

REACH & RoHS  
COMPLIANT

introduction

- ROHS, Halogen Free and REACH compliance
- High rated current
- 125℃ maximum total temperature operation
- 5.75×5.4×1.8mm maximum surface mount package
- Low core loss
- Ultra low buzz noise due to molding construction

Applications

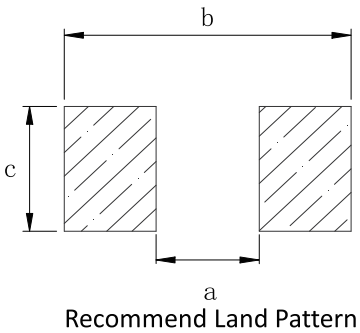
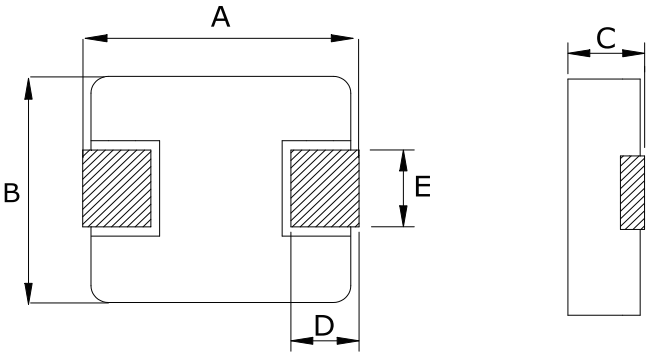
- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

Product Identification

YTA      0518      --1R5      M  
①          ②          ③          ④

- ① YTA ----- Series    name
- ② 0518 ----- Dimension
- ③ 1R5 ----- Inductance Value (1R5 = 1.5μH)
- ④    M -----Inductance Tolerance ( M= ± 20% )

Dimensions (unit:mm)



| A        | B       | C       | D       | E       | a typ | b typ | c typ |
|----------|---------|---------|---------|---------|-------|-------|-------|
| 5.4±0.35 | 5.2±0.2 | 1.6±0.2 | 1.2±0.2 | 2.2±0.3 | 2.2   | 6     | 2.5   |

**VOOHU** 苏州沃虎电子科技有限公司  
Su Zhou Voohu Electronic Tech.Co.Ltd

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TITLE:  
YTA0518 Series

PART NO.:  
YTA0518系列规格书 REV1.1

REMARK:

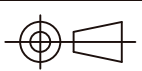
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GENERAL TOLERANCES  
UNLESS SPECIFIED

x±0.35  
.x±0.30  
.xx±0.25  
.xxx±0.10

APPROVED BY:  
Geoffrey.Song

CHECKED BY:  
Elvis.Song

DESIGND BY:  
Sunny.Xu

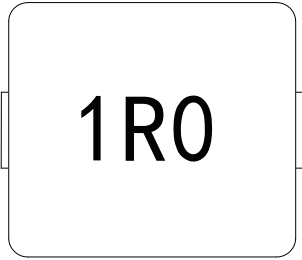
REACH & RoHS  
COMPLIANT

Marking

The inductor is marked with a 3-digit code

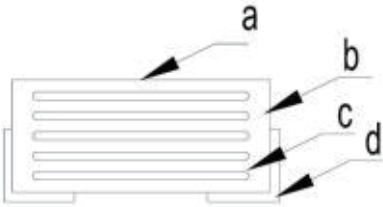
| Nominal Inductance |               |
|--------------------|---------------|
| Example            | Nominal Value |
| 1R0                | 1.0 $\mu$ H   |
| 100                | 10 $\mu$ H    |
| 101                | 100 $\mu$ H   |

Note : Using Ink for marking



Structure and Components

| Symbol | Components | Material                 |
|--------|------------|--------------------------|
| a      | MARKING    | Ink(black)               |
| b      | CORE       | Alloy Sponge Powder      |
| c      | WIRE       | Polyurethane copper wire |
| d      | Terminal   | Copper plated with Sn    |



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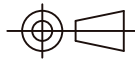
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GENERAL TOLERANCES  
UNLESS SPECIFIED

|               |                          |
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| $x \pm 0.35$  | $x^\circ \pm 3.0^\circ$  |
| $.x \pm 0.30$ | $.x^\circ \pm 2.0^\circ$ |

|                 |                            |
|-----------------|----------------------------|
| $.xx \pm 0.25$  | $.xx^\circ \pm 1.5^\circ$  |
| $.xxx \pm 0.10$ | $.xxx^\circ \pm 1.0^\circ$ |

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|                           |   |    |   |   |   |   |   |
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| REACH & RoHS<br>COMPLIANT |   |    |   |   |   |   |   |
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REACH & RoHS  
COMPLIANT

| Mechanical Reliability   |                                                                               |                                                                                                                                                                                                  |
|--------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item                     | Specification and Requirement                                                 | Test Method                                                                                                                                                                                      |
| Solderability            | 1. No case deformation or change in apperance                                 | 1.Preheat: 155℃±5℃ , 60S±2S<br>2.Tin: lead-free.<br>3.Temperature:240℃±5℃, flux 3.0S±0.5S.                                                                                                       |
|                          | 2. New solder coverage More than 95%                                          |                                                                                                                                                                                                  |
| Mechanical shock         | 1. No case deformation or change in apperance                                 | 1. Acceleration: 100G<br>2. Pulse time: 6ms<br>3. 3 times in each positive and negative direction of 3 mutual perpendicular directions                                                           |
|                          | 2. $\Delta L/Lo \leq \pm 10\%$                                                |                                                                                                                                                                                                  |
| Mechanical vibration     | 1. No case deformation or change in apperance                                 | 1. Reflow: 2times<br>2. Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles<br>3. Amplitude: 1.52 mm<br>4. Directions: X,Y,Z<br>5. Time: 12 cycle / direction                                               |
|                          | 2. $\Delta L/Lo \leq \pm 10\%$                                                |                                                                                                                                                                                                  |
| Endurance Reliability    |                                                                               |                                                                                                                                                                                                  |
| Item                     | Specification and Requirement                                                 | Test Method                                                                                                                                                                                      |
| Thermal Shock            | Inductance change:<br>Within $\pm 10\%$ Without distinct damage in appearance | 1. First -55℃ for 30 minutes, last 125℃ for 30 minutes as 1 cycle. Go through 1000 cycles.<br>2. Max transfer time is 3 minutes.<br>3. Measured at room temperature after placing for 24±2 hours |
|                          |                                                                               |                                                                                                                                                                                                  |
| Humidity Resistance      | Inductance change:<br>Within $\pm 10\%$ Without distinct damage in appearance | 1.Reflow 2 times,<br>2.85℃,85%RH,1000 hours<br>3.Measured at room temperature after placing for 24±2 hours                                                                                       |
|                          |                                                                               |                                                                                                                                                                                                  |
| Low temperature storage  | Inductance change:<br>Within $\pm 10\%$ Without distinct damage in appearance | 1. Temperature: -55 $\pm 2^\circ\text{C}$<br>2. Time: 1000 hours<br>3. Measured at room temperature after placing for 24±2 hours                                                                 |
|                          |                                                                               |                                                                                                                                                                                                  |
| High temperature storage | Inductance change:<br>Within $\pm 10\%$ Without distinct damage in appearance | 1. Temperature: +125 $\pm 2^\circ\text{C}$<br>2. Time: 1000 hours<br>3. Measured at room temperature after placing for 24±2 hours                                                                |
|                          |                                                                               |                                                                                                                                                                                                  |

## Recommended Soldering Technologies

### (1)Re-flowing Profile

Preheat condition: 150 ~200℃/60~180sec.

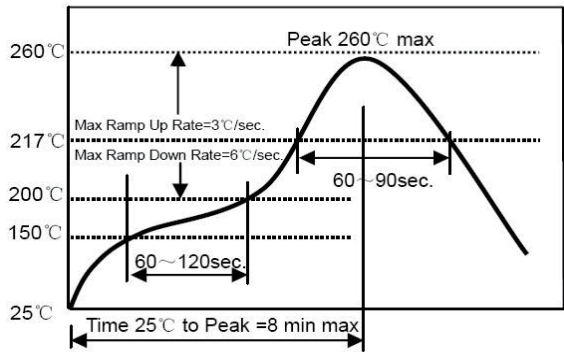
Allowed time above 217℃: 80~120sec.

Max temp: 260℃

Max time at max temp: 5 sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max



### (2)Iron Soldering Profile

Iron soldering power: Max. 30W

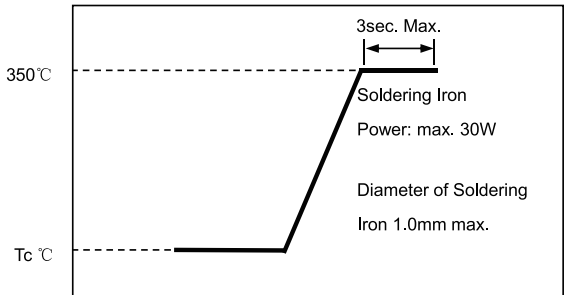
Pre-heating: 150℃/60sec.

Soldering Tip temperature: 350℃ Max.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Max.1 times for iron soldering



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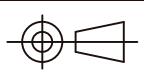
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UNLESS SPECIFIED

|                 |                            |
|-----------------|----------------------------|
| $x \pm 0.35$    | $x^\circ \pm 3.0^\circ$    |
| $.x \pm 0.30$   | $.x^\circ \pm 2.0^\circ$   |
| $.xx \pm 0.25$  | $.xx^\circ \pm 1.5^\circ$  |
| $.xxx \pm 0.10$ | $.xxx^\circ \pm 1.0^\circ$ |

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DESIGND BY:  
Sunny.Xu

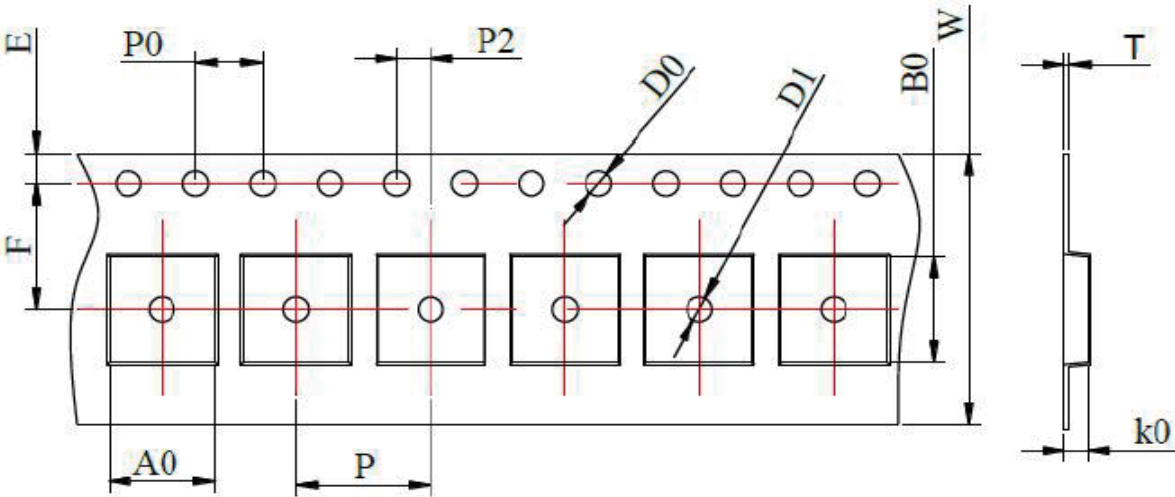
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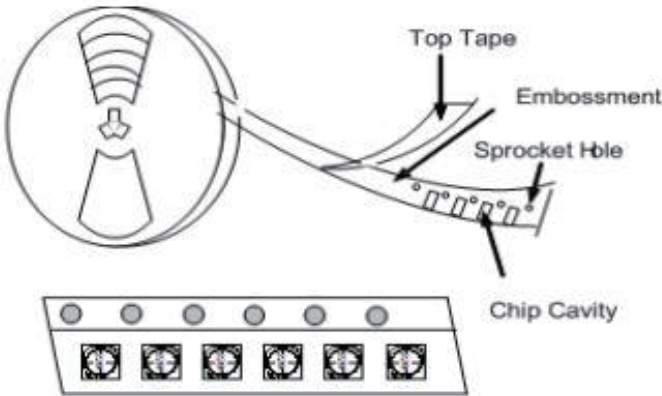
REACH & RoHS  
COMPLIANT

Packaging Information

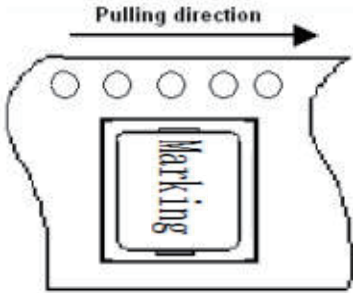
(1) Tape Packaging Dimensions (Unit: mm)



Taping Drawings (UNIT:mm)



| Type      | Tape dimensions (mm) |           |           |           |             |             |               |             |             |              |              |             |
|-----------|----------------------|-----------|-----------|-----------|-------------|-------------|---------------|-------------|-------------|--------------|--------------|-------------|
|           | W                    | P         | P0        | P2        | D0          | D1          | T             | A0          | B0          | K0           | E            | F           |
| WHYTA0518 | 12<br>±0.3           | 8<br>±0.1 | 4<br>±0.1 | 2<br>±0.1 | 1.5<br>±0.1 | 1.5<br>±0.1 | 0.35<br>±0.05 | 5.5<br>±0.1 | 5.9<br>±0.1 | 2.0<br>±0.01 | 1.75<br>±0.1 | 5.5<br>±0.1 |



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TITLE:  
YTA0518 Series

PART NO.:  
YTA0518系列规格书 REV1.1

REMARK:

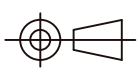
SIZE  
A4

SACLE  
1:1

SHEET  
5/7

UNITS  
MM[INCH]

REV  
A0



GENERAL TOLERANCES  
UNLESS SPECIFIED

$x \pm 0.35$   
 $.x \pm 0.30$

$.xx \pm 0.25$   
 $.xxx \pm 0.10$

$x^\circ \pm 3.0^\circ$   
 $.x^\circ \pm 2.0^\circ$

$.xx^\circ \pm 1.5^\circ$   
 $.xxx^\circ \pm 1.0^\circ$

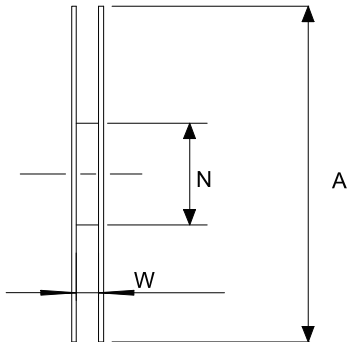
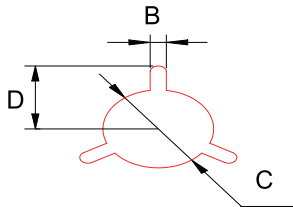
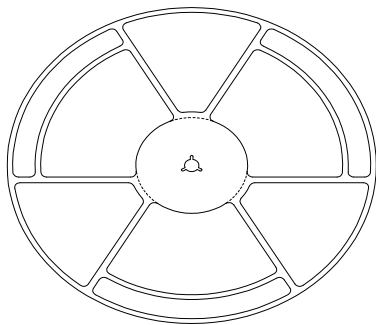
APPROVED BY:  
Geoffrey.Song

CHECKED BY:  
Elvis.Song

DESIGND BY:  
Sunny.Xu

REACH & RoHS  
COMPLIANT

(2) Reel Dimensions (Unit: mm)



|         |          |        |         |          |            |
|---------|----------|--------|---------|----------|------------|
| A       | W        | N      | B       | C        | D          |
| 330+2.0 | 12.8+0.2 | 97+0.5 | 2.2+0.5 | 13.2±0.2 | 10.75±0.25 |

(3) Packaging Quantity(PCS)

| Type      | Standard Quantity |                        |                                 |
|-----------|-------------------|------------------------|---------------------------------|
|           | Reel              | Inner box              | Carton box                      |
| WHYTA0518 | 2000 pcs / reel   | 4Reel / box (8000 pcs) | 4 Middle boxes,<br>(32,000 pcs) |

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TITLE:  
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REMARK:

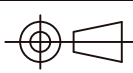
SIZE  
A4

SACLE  
1:1

SHEET  
6/7

UNITS  
MM[INCH]

REV  
A0



GENERAL TOLERANCES  
UNLESS SPECIFIED

x±0.35  
.x±0.30

.xx±0.25  
.xxx±0.10

x°±3.0°  
.x°±2.0°

.xx°±1.5°  
.xxx°±1.0°

APPROVED BY:  
Geoffrey.Song

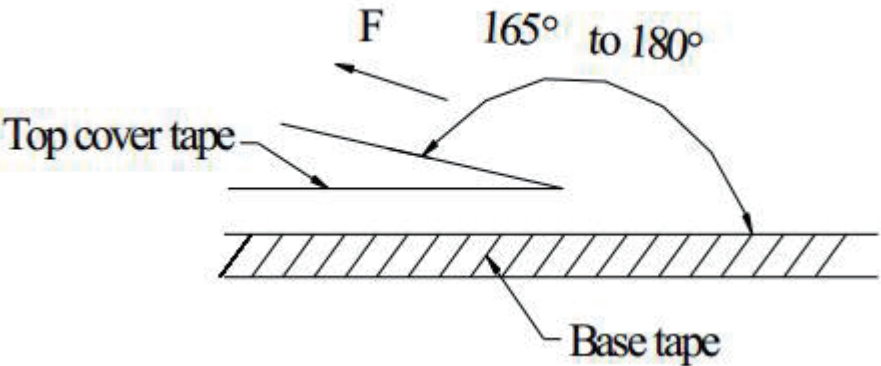
CHECKED BY:  
Elvis.Song

DESIGND BY:  
Sunny.Xu

H  
G  
F  
E  
D  
C  
B  
A

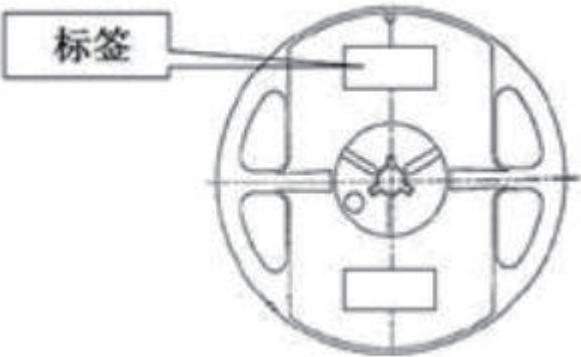
(4) Peel force of top cover tape

The peel speed shall be about 300mm/minute  
The peel force of top cover tape shall be between 0.1 to 1.3 N



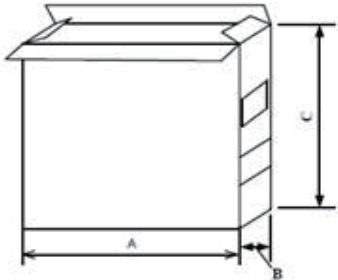
(5) Reel Label

- Label on the reel
- Customer's part Number
  - Lot Number
  - Quantity
  - date code



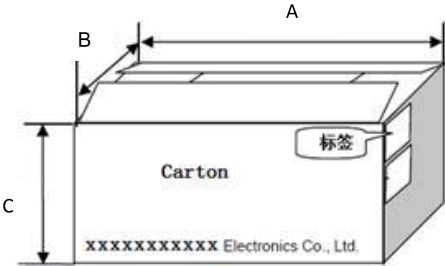
- Shipping Label
- Customer's part Number
  - Manufacturer's part Number
  - Quantity
  - date code

(6) Inner Box

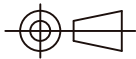


| Packaging type | A (mm) | B (mm) | C (mm) |
|----------------|--------|--------|--------|
| Inner box      | 335    | 70     | 340    |

(7) Carton



| Packaging type | A (mm) | B (mm) | C (mm) |
|----------------|--------|--------|--------|
| type           | 360    | 360    | 360    |



|                 |                            |
|-----------------|----------------------------|
| $x \pm 0.35$    | $x^\circ \pm 3.0^\circ$    |
| $.x \pm 0.30$   | $.x^\circ \pm 2.0^\circ$   |
| $.xx \pm 0.25$  | $.xx^\circ \pm 1.5^\circ$  |
| $.xxx \pm 0.10$ | $.xxx^\circ \pm 1.0^\circ$ |