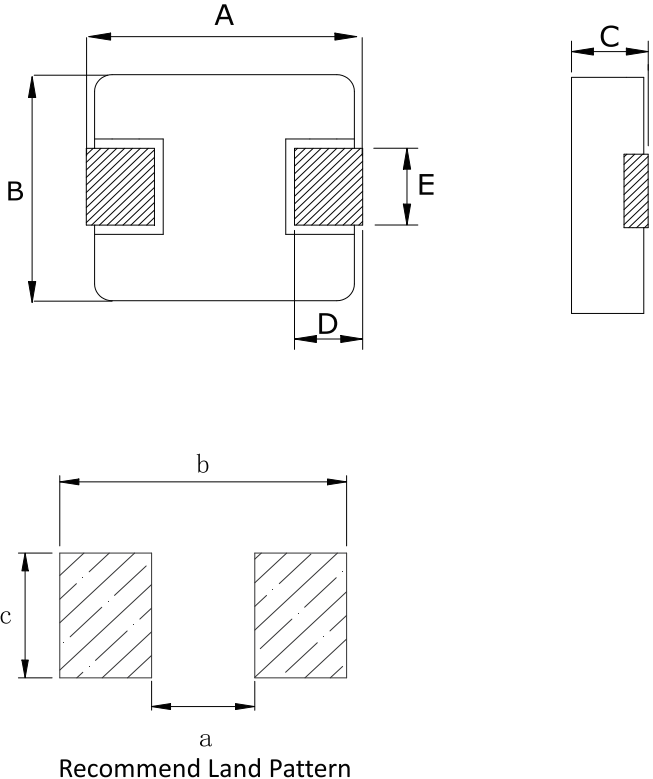
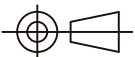
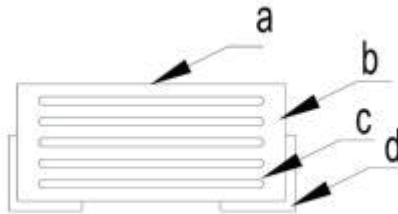
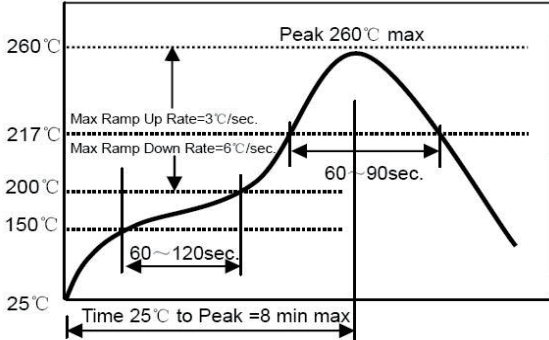
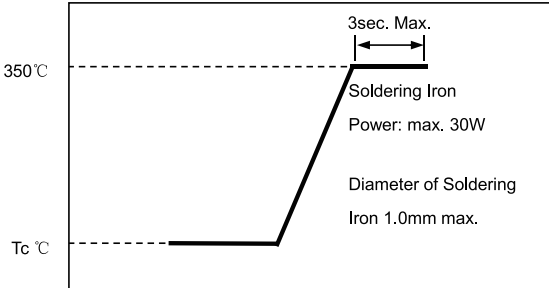


1	2	3	4	5	6	7	8																
REACH & RoHS COMPLIANT																							
introduction • ROHS, Halogen Free and REACH compliance • High rated current • 125℃ maximum total temperature operation • 7.3×6.8×1.5mm maximum surface mount package • Low core loss • Ultra low buzz noise due to molding construction		Dimensions-mm 																					
Applications • Laptops and PCs • Switch and servers • Base stations • DC/DC converters • Battery powered devices • SSD modules																							
Product Identification																							
YTA ① 0615 ② --6R8 ③ M ④																							
① YTA ----- Series name ② 0615 ----- Dimension ③ 6R8 ----- Inductance Value (6R8 = 6.8μH) ④ M -----Inductance Tolerance (M= ± 20%)		<table> <tr> <th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>a typ</th><th>b typ</th><th>c typ</th></tr> <tr> <td>7.0±0.3</td><td>6.6±0.2</td><td>1.3±0.2</td><td>1.6±0.3</td><td>3.0±0.3</td><td>3.7</td><td>8.4</td><td>3.5</td></tr> </table>						A	B	C	D	E	a typ	b typ	c typ	7.0±0.3	6.6±0.2	1.3±0.2	1.6±0.3	3.0±0.3	3.7	8.4	3.5
A	B	C	D	E	a typ	b typ	c typ																
7.0±0.3	6.6±0.2	1.3±0.2	1.6±0.3	3.0±0.3	3.7	8.4	3.5																
VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd TEL: +86 400 1048 018 WEB: WWW.WOHU-TEK.COM		TITLE: YTA0615 Series	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song																
		PART NO.: YTA0615系列规格书	SACLE 1:1	REV A0	x±0.35 .x±0.30	x°±3.0° .x°±2.0°	CHECKED BY: Elvis.Song																
		REMARK:	SHEET 1/7		.xx±0.25 .xxx±0.10	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Sunny.Xu																
1	2	3	4	5	6	7	8																

1	2	3	4	5	6	7	8																									
REACH & RoHS COMPLIANT																																
Marking		Structure and Components																														
The inductor is marked with a 3-digit code																																
<table><tr><td colspan="2">Nominal Inductance</td></tr><tr><td>Example</td><td>Nominal Value</td></tr><tr><td>1R0</td><td>1.0 μH</td></tr><tr><td>100</td><td>10 μH</td></tr><tr><td>101</td><td>100 μH</td></tr></table>		Nominal Inductance		Example	Nominal Value	1R0	1.0 μH	100	10 μH	101	100 μH	<table><tr><td>Symbol</td><td>Components</td><td>Material</td></tr><tr><td>a</td><td>MARKING</td><td>Ink (black)</td></tr><tr><td>b</td><td>CORE</td><td>Alloy Sponge Powder</td></tr><tr><td>c</td><td>WIRE</td><td>Polyurethane copper wire</td></tr><tr><td>d</td><td>Terminal</td><td>Copper plated with Sn</td></tr></table>						Symbol	Components	Material	a	MARKING	Ink (black)	b	CORE	Alloy Sponge Powder	c	WIRE	Polyurethane copper wire	d	Terminal	Copper plated with Sn
Nominal Inductance																																
Example	Nominal Value																															
1R0	1.0 μH																															
100	10 μH																															
101	100 μH																															
Symbol	Components	Material																														
a	MARKING	Ink (black)																														
b	CORE	Alloy Sponge Powder																														
c	WIRE	Polyurethane copper wire																														
d	Terminal	Copper plated with Sn																														
Note : Using Ink for marking																																
																																
 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: YTA0615 Series	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song																									
		PART NO.: YTA0615系列规格书	SACLE 1:1	REV A0	x±0.35 .x±0.30	x°±3.0° .x°±2.0°	CHECKED BY: Elvis.Song																									
TEL: +86 400 1048 018	WEB: WWW.WOHU-TEK.COM	REMARK:	SHEET 2/7		.xx±0.25 .xxx±0.10	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Sunny.Xu																									

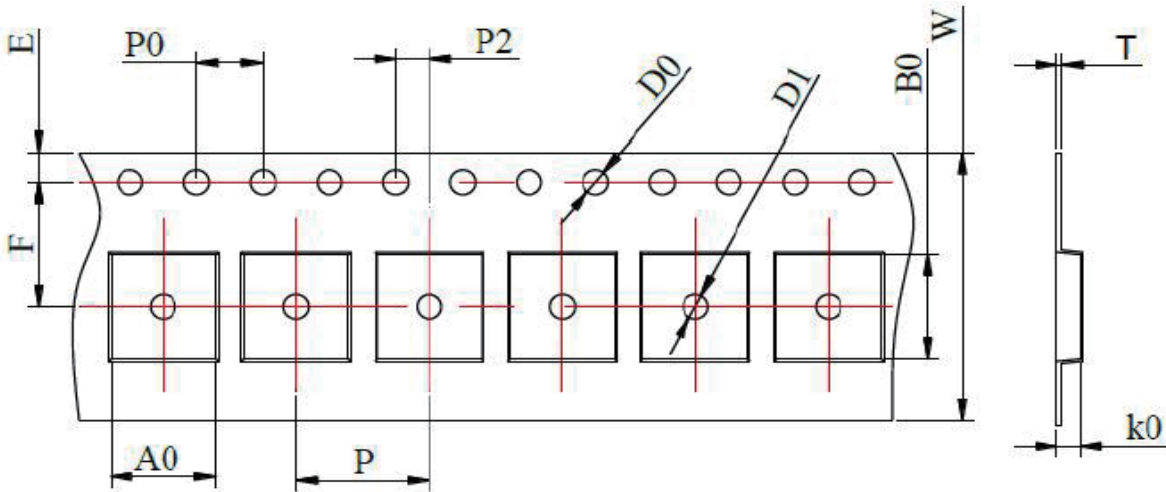
1	2	3	4	5	6	7	8
REACH & RoHS COMPLIANT							

1		2	3	4	5	6	7	8																																	
REACH & RoHS COMPLIANT																																									
<table><tr><th colspan="3">Mechanical Reliability</th></tr><tr><th>Item</th><th>Specification and Requirement</th><th>Test Method</th></tr><tr><td>Solderability</td><td>1. No case deformation or change in apperance 2. New solder coverage More than 95%</td><td>1.Preheat: 155℃±5℃ , 60S±2S 2.Tin: lead-free. 3.Temperature:240℃±5℃ , flux 3.0S±0.5S.</td></tr><tr><td>Mechanical shock</td><td>1. No case deformation or change in apperance 2. ΔL/Lo≡±10%</td><td>1. Acceleration: 100G 2. Pulse time.: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular directions</td></tr><tr><td>Mechanical vibration</td><td>1. No case deformation or change in apperance 2. ΔL/Lo≡±10%</td><td>1. Reflow: 2times 2. Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles 3. Amplitude: 1.52 mm 4. Directions: X,Y,Z 5. Time: 12 cycle / direction</td></tr><tr><th colspan="3">Endurance Reliability</th></tr><tr><th>Item</th><th>Specification and Requirement</th><th>Test Method</th></tr><tr><td>Thermal Shock</td><td>Inductance change: Within ± 10% Without distinct damage in appearance</td><td>1. First -55℃ for 30 minutes, last 125℃ for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 3 minutes. 3. Measured at room temperature after placing for 24±2 hours</td></tr><tr><td>Humidity Resistance</td><td>Inductance change: Within ± 10% Without distinct damage in appearance</td><td>1.Reflow 2 times, 2.85℃,85%RH,1000 hours 3.Measured at room temperature after placing for 24±2 hours</td></tr><tr><td>Low temperature storage</td><td>Inductance change: Within ± 10% Without distinct damage in appearance</td><td>1. Temperature: -55 ± 2℃ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours</td></tr><tr><td>High temperature storage</td><td>Inductance change: Within ± 10% Without distinct damage in appearance</td><td>1. Temperature: +125 ± 2℃ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours</td></tr></table>									Mechanical Reliability			Item	Specification and Requirement	Test Method	Solderability	1. No case deformation or change in apperance 2. New solder coverage More than 95%	1.Preheat: 155℃±5℃ , 60S±2S 2.Tin: lead-free. 3.Temperature:240℃±5℃ , flux 3.0S±0.5S.	Mechanical shock	1. No case deformation or change in apperance 2. ΔL/Lo≡±10%	1. Acceleration: 100G 2. Pulse time.: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular directions	Mechanical vibration	1. No case deformation or change in apperance 2. ΔL/Lo≡±10%	1. Reflow: 2times 2. Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles 3. Amplitude: 1.52 mm 4. Directions: X,Y,Z 5. Time: 12 cycle / direction	Endurance Reliability			Item	Specification and Requirement	Test Method	Thermal Shock	Inductance change: Within ± 10% Without distinct damage in appearance	1. First -55℃ for 30 minutes, last 125℃ for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 3 minutes. 3. Measured at room temperature after placing for 24±2 hours	Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in appearance	1.Reflow 2 times, 2.85℃,85%RH,1000 hours 3.Measured at room temperature after placing for 24±2 hours	Low temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature: -55 ± 2℃ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours	High temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature: +125 ± 2℃ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours
Mechanical Reliability																																									
Item	Specification and Requirement	Test Method																																							
Solderability	1. No case deformation or change in apperance 2. New solder coverage More than 95%	1.Preheat: 155℃±5℃ , 60S±2S 2.Tin: lead-free. 3.Temperature:240℃±5℃ , flux 3.0S±0.5S.																																							
Mechanical shock	1. No case deformation or change in apperance 2. ΔL/Lo≡±10%	1. Acceleration: 100G 2. Pulse time.: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular directions																																							
Mechanical vibration	1. No case deformation or change in apperance 2. ΔL/Lo≡±10%	1. Reflow: 2times 2. Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles 3. Amplitude: 1.52 mm 4. Directions: X,Y,Z 5. Time: 12 cycle / direction																																							
Endurance Reliability																																									
Item	Specification and Requirement	Test Method																																							
Thermal Shock	Inductance change: Within ± 10% Without distinct damage in appearance	1. First -55℃ for 30 minutes, last 125℃ for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 3 minutes. 3. Measured at room temperature after placing for 24±2 hours																																							
Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in appearance	1.Reflow 2 times, 2.85℃,85%RH,1000 hours 3.Measured at room temperature after placing for 24±2 hours																																							
Low temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature: -55 ± 2℃ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours																																							
High temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature: +125 ± 2℃ 2. Time: 1000 hours 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: 10 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 																																									
VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd			TITLE: YTA0615 Series		SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song																																
			PART NO.: YTA0615系列规格书		SACLE 1:1	REV A0	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song																																
							.x±0.30	.x°±2.0°																																	
TEL: +86 400 1048 018			REMARK:		SHEET 4/7		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu																																
WEB: WWW.WOHU-TEK.COM							.xxx±0.10	.xxx°±1.0°																																	

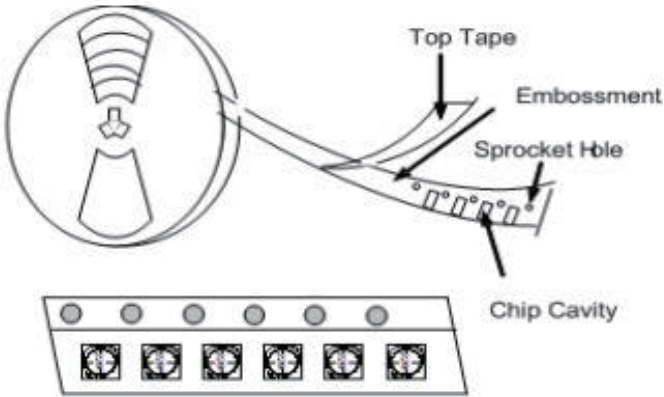
REACH & RoHS
COMPLIANT

Packaging Information

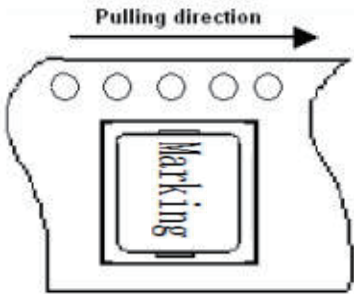
(1) Tape Packaging Dimensions (Unit: mm)



Taping Drawings (UNIT:mm)



Type	Tape dimensions (mm)											
	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
WHYTA0615	16 ±0.3	12 ±0.1	4 ±0.1	2 ±0.1	1.5 ±0.1	1.5 ±0.1	0.35 ±0.05	6.9 ±0.1	7.5 ±0.1	1.7 ±0.1	1.75 ±0.1	7.5 ±0.1



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

TEL: +86 400 1048 018

WEB: WWW.WOHU-TEK.COM

TITLE:
YTA0615 Series

PART NO.:
YTA0615系列规格书

REMARK:

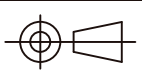
SIZE
A4

SACLE
1:1

SHEET
5/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

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

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

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

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

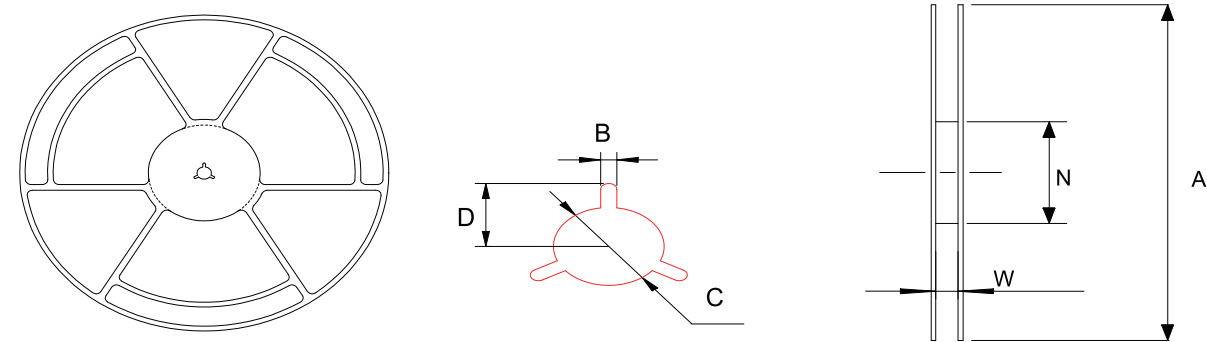
APPROVED BY:
Geoffrey.Song

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	16.8+0.2	97+0.5	2.2+0.5	13.2±0.2	10.75±0.25

(3) Packaging Quantity(PCS)

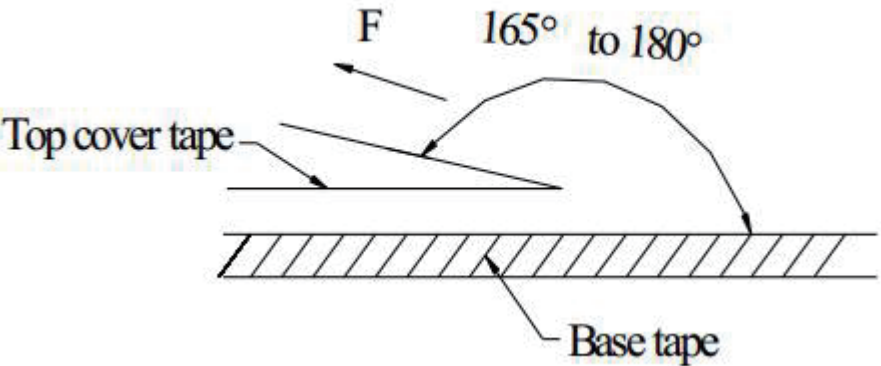
Type	Standard Quantity		
	Reel	Inner box	Carton box
WHYTA0615	2000 pcs / reel	3Reel / box (6000 pcs)	4 Middle boxes, (24000 pcs)

 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: YTA0615 Series	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
		PART NO.: YTA0615系列规格书	SACLE 1:1	REV A0	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
					.x±0.30	.x°±2.0°	
TEL: +86 400 1048 018	WEB: WWW.WOHU-TEK.COM	REMARK:	SHEET 6/7		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
					.xxx±0.10	.xxx°±1.0°	

REACH & RoHS
COMPLIANT

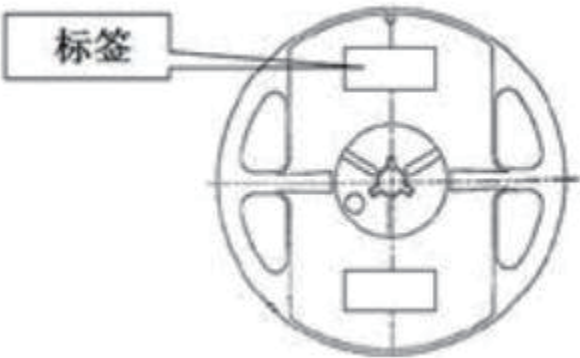
(4) Peel force of top cover tape

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



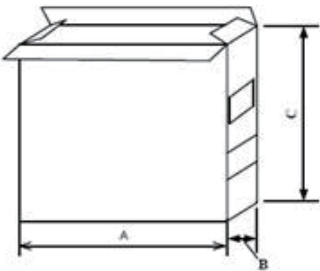
(5) Reel Label

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



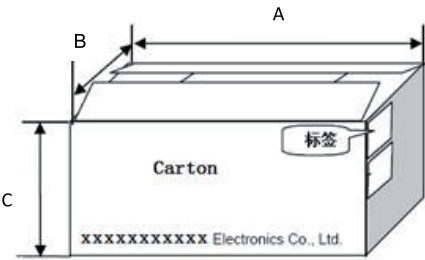
- Shipping Label
- Customer's part Number
 - Manufacturer's part Number
 - Quantity
 - date code

(6) Inner Box



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

(7) Carton



Packaging type	A (mm)	B (mm)	B (mm)
type	360	360	360

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

TEL: +86 400 1048 018

WEB: WWW.WOHU-TEK.COM

TITLE:
YTA0615 Series

PART NO.:
YTA0615系列规格书

REMARK:

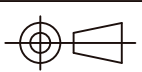
SIZE
A4

SACLE
1:1

SHEET
7/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

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

APPROVED BY:
Geoffrey.Song

CHECKED BY:
Elvis.Song

DESIGND BY:
Sunny.Xu