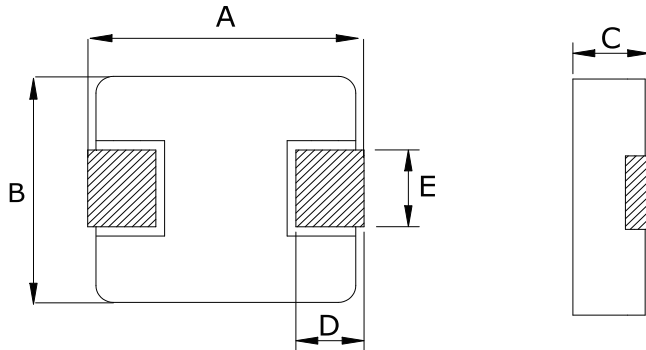
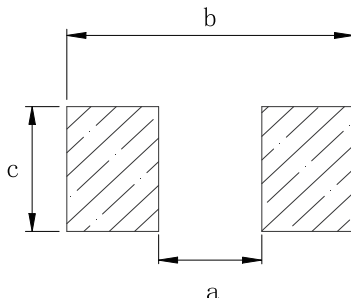
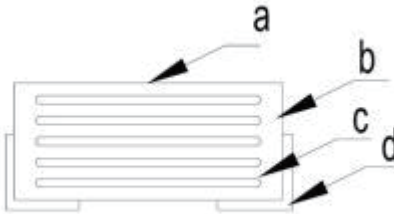
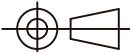


1		2	3	4	5	6	7	8																
REACH & RoHS COMPLIANT																								
Introduction				Dimensions-mm																				
• ROHS, Halogen Free and REACH compliance • High rated current • 125℃ maximum total temperature operation • 11.5×10.3×5.0mm maximum surface mount package • Low core loss • 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				Recommend Land Pattern																				
Product Identification																								
<u>YT</u> <u>1050</u> <u>--1R5</u> <u>M</u> ① ② ③ ④																								
① YT ----- Series name ② 1050 ----- Dimension ③ 1R5 ----- Inductance Value (1R5 = 1.5μH) ④ M -----Inductance Tolerance (M= ± 20%)				<table><tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>a typ</td><td>b typ</td><td>c typ</td></tr><tr><td>11.5MAX</td><td>10.0±0.3</td><td>4.8±0.2</td><td>2.0±0.5</td><td>3.0±0.5</td><td>5.4</td><td>13.6</td><td>4.1</td></tr></table>					A	B	C	D	E	a typ	b typ	c typ	11.5MAX	10.0±0.3	4.8±0.2	2.0±0.5	3.0±0.5	5.4	13.6	4.1
A	B	C	D	E	a typ	b typ	c typ																	
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 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: YT1050 Series		SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song																
		PART NO.: YT1050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 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																									
REACH & RoHS COMPLIANT																																
Marking		Structure and Components																														
The inductor is marked with a 3-digit code																																
<table><tr><th colspan="2">Nominal Inductance</th></tr><tr><th>Example</th><th>Nominal Value</th></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><th>Symbol</th><th>Components</th><th>Material</th></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		
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VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: YT1050 Series	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song																									
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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								
G								
F								
E								
D								
C								
B								
A								

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

</

(1)Re-flowing Profile

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

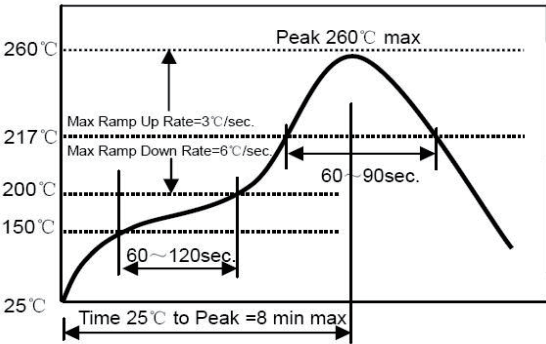
Allowed time above 217℃: 80~120sec.

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

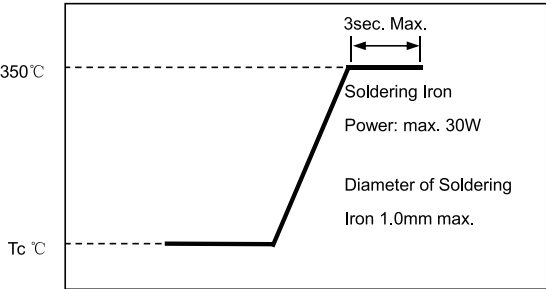
Pre-heating: 150℃/60sec.

Soldering Tip temperature: 350℃ Max.

Soldering time: 3sec. Max.

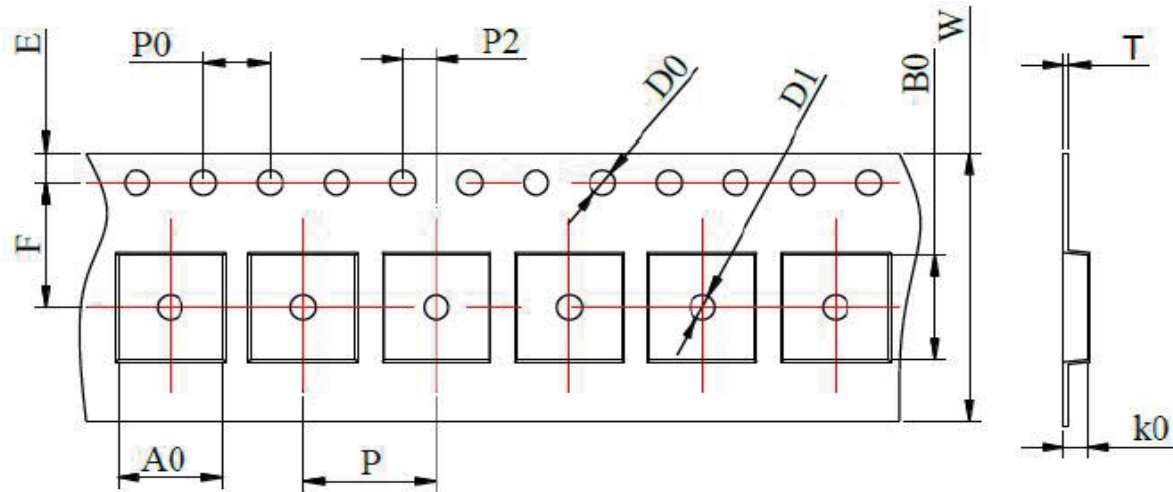
Solder paste: Sn/3.0Ag/0.5Cu

Max.1 times for iron soldering

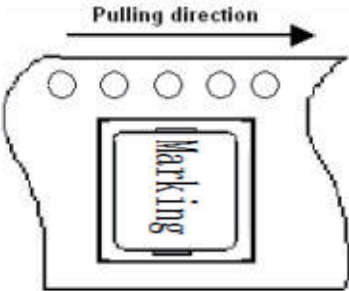
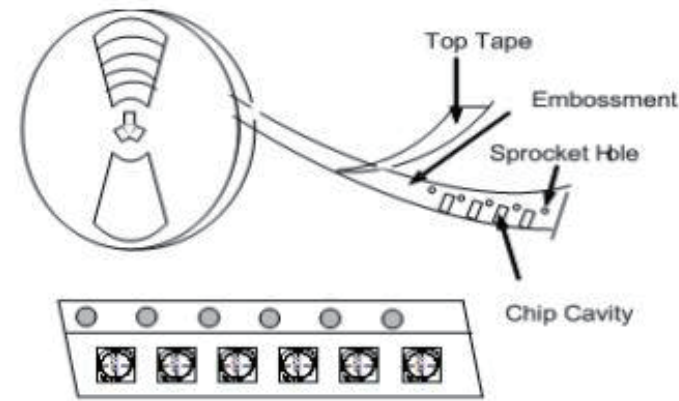


REACH & RoHS
COMPLIANT

(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
WHYT1050	24 ±0.3	16 ±0.1	4 ±0.1	2 ±0.05	1.5 ±0.1	1.5 ±0.1	0.4 ±0.05	10.4 ±0.1	11.6 ±0.1	5.4 ±0.1	1.75 ±0.1	11.5 ±0.1

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TITLE:
YT1050 Series

PART NO.:
YT1050系列规格书

REMARK:

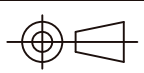
SIZE
A4

SACLE
1:1

SHEET
5/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

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

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

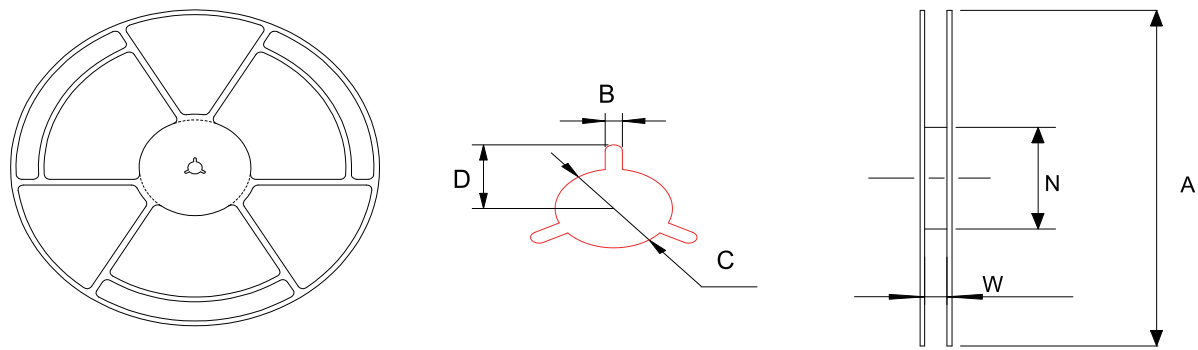
APPROVED BY:
Geoffrey.Song

CHECKED BY:
Elvis.Song

DESIGND BY:
Sunny.Xu

REACH & RoHS
COMPLIANT

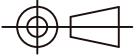
(2) Reel Dimensions (Unit: mm)



A	W	N	B	C	D
330+2.0	24±0.5	97±0.5	2.2+0.5	13.0±0.2	10.75±0.25

(3) Packaging Quantity(PCS)

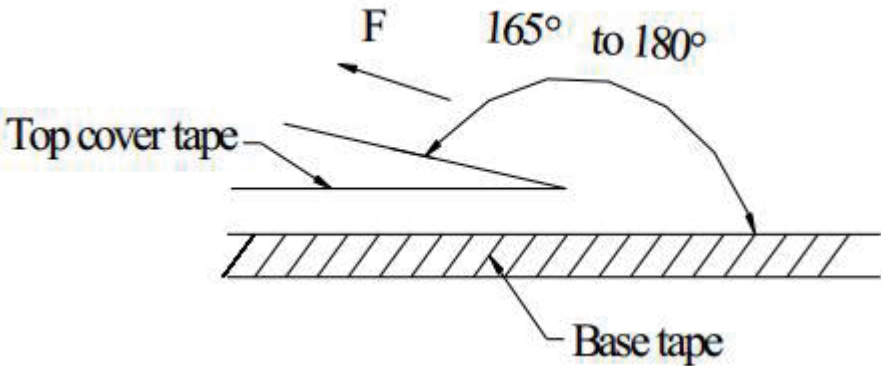
Type	Standard Quantity		
	Reel	Inner box	Carton box
WHYT1050	500 pcs / reel	2Reel / box (1000 pcs)	4 Middle boxes, (4000 pcs)

 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE: YT1050 Series		SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
	PART NO.: YT1050系列规格书		SACLE 1:1	REV A0	.xx±0.35	x°±3.0°	CHECKED BY:
	REMARK:		SHEET 6/7		.x±0.30	.x°±2.0°	Elvis.Song
	TEL: +86 400 1048 018	WEB: WWW.WOHU-TEK.COM			.xx±0.25	.xx°±1.5°	DESIGND BY:
					.xxx±0.10	.xxx°±1.0°	Sunny.Xu

REACH & RoHS
COMPLIANT

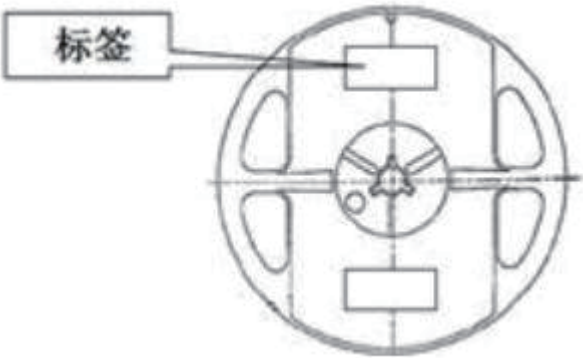
(4) Peel force of top cover tape

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

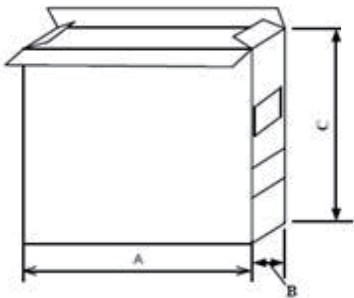
- Label on the reel
- Customer's part Number
 - Lot Number
 - Quantity
 - date code



Shipping Label

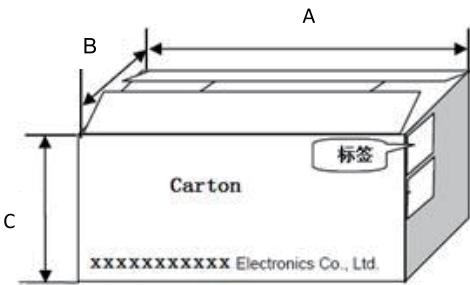
- Customer's part Number
- Manufacturer's part Number
- Quantity
- date code

(6) Inner Box



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

(7) Carton



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

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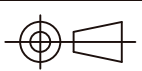
SIZE
A4

SACLE
1:1

SHEET
7/7

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:
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DESIGND BY:
Sunny.Xu