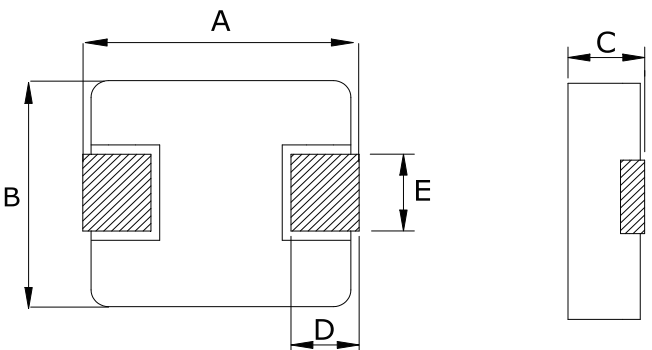
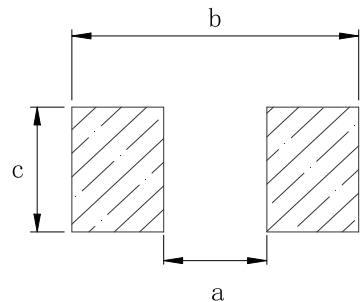


1	2	3	4	5	6	7	8																
REACH & RoHS COMPLIANT																							
Introduction		Dimensions-mm																					
• ROHS, Halogen Free and REACH compliance • High rated current • 125℃ maximum total temperature operation • 11.5×10.3×3.0mm maximum surface mount package • Low core loss • Ultra low buzz noise due to molding construction																							
Applications																							
Product Identification		Recommend Land Pattern																					
YT ① 1030 ② -1R5 ③ M ④																							
① YT ----- Series name ② 1030 ----- 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>2.8±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	2.8±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																
11.5MAX	10.0±0.3	2.8±0.2	2.0±0.5	3.0±0.5	5.4	13.6	4.1																
VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: YT1030 Series		SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song															
		PART NO.: YT1030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		REMARK:		SHEET 1/7		.xx±0.25 .xxx±0.10	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Sunny.Xu															
WEB: WWW.WOHU-TEK.COM																							

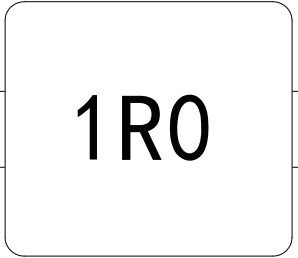
REACH & RoHS
COMPLIANT

Marking

The inductor is marked with a 3-digit code

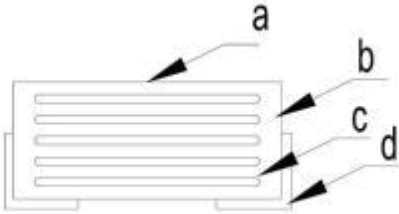
Nominal Inductance	
Example	Nominal Value
1R0	1.0 μ H
100	10 μ H
101	100 μ H

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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TITLE:
YT1030 Series

PART NO.:
YT1030系列规格书

REMARK:

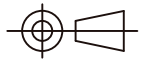
SIZE
A4

SACLE
1:1

SHEET
2/7

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

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REACH & RoHS COMPLIANT

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX.	TYP.	TYP.
WHYT1030-R22M	0.22	1.2	50	33
WHYT1030-R22M-RD89	0.22	0.89±7%	50	33
WHYT1030-R33M	0.33	1.6	32	23
WHYT1030-R36M	0.36	1.6	28	23
WHYT1030-R47M	0.47	2.5	26	22
WHYT1030-R82M	0.82	3.7	23	18
WHYT1030-1R0M	1.0	6	21	15
WHYT1030-2R2M	2.2	9	14	11
WHYT1030-3R3M	3.3	16	12	9
WHYT1030-4R7M	4.7	24	10	7
WHYT1030-8R2M	8.2	45	7	5
WHYT1030-330M	33	160	4	2.6

Notes

1. All test data is referenced to 25 °C ambient

2. Operating temperature range - 55 °C to + 125 °C

3. Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C)

4. Isat(A):DC current (A) that will cause L0 to drop approximately 30 %

5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE:	SIZE	UNITS	GENERAL TOLERANCES		APPROVED BY:	
	YT1030 Series	A4	MM[INCH]	UNLESS SPECIFIED		Geoffrey.Song	
	PART NO.:	SACLE	REV	.x±0.35	x°±3.0°	CHECKED BY:	
TEL: +86 400 1048 018	WEB: WWW.WOHU-TEK.COM	YT1030系列规格书	1:1	A0	.x±0.30	.x°±2.0°	Elvis.Song
		REMARK:	SHEET		.xx±0.25	.xx°±1.5°	DESIGND BY:
		3/7	.xxx±0.10		.xxx°±1.0°	Sunny.Xu	

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REACH & RoHS
COMPLIANT

Mechanical Reliability		
Item	Specification and Requirement	Test Method
Solderability	1. No case deformation or change in appearance 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 appearance 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 appearance 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.

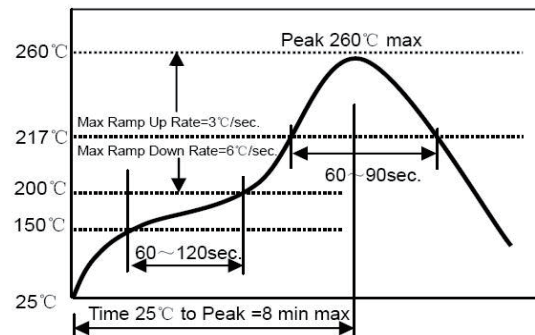
Allowed time above 217℃: 80~120sec.

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

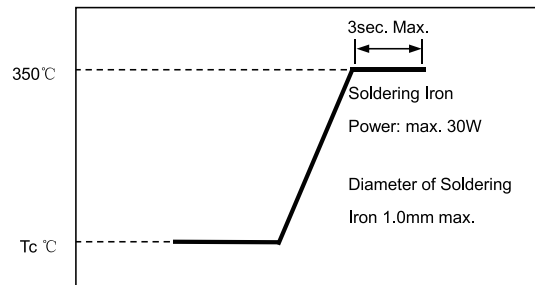
Pre-heating: 150℃/60sec.

Soldering Tip temperature: 350℃ Max.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Max.1 times for iron soldering



TITLE:
YT1030 Series

SIZE
A4

UNITS
MM[INCH]

GENERAL TOLERANCES
UNLESS SPECIFIED

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PART NO.:
YT1030系列规格书

SACLE
1:1

REV
A0

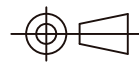
x±0.35
.x±0.30
.xx±0.25
.xxx±0.10

x°±3.0°
.x°±2.0°
.xx°±1.5°
.xxx°±1.0°

CHECKED BY:
Elvis.Song
DESIGND BY:
Sunny.Xu

REMARK:

SHEET
4/7



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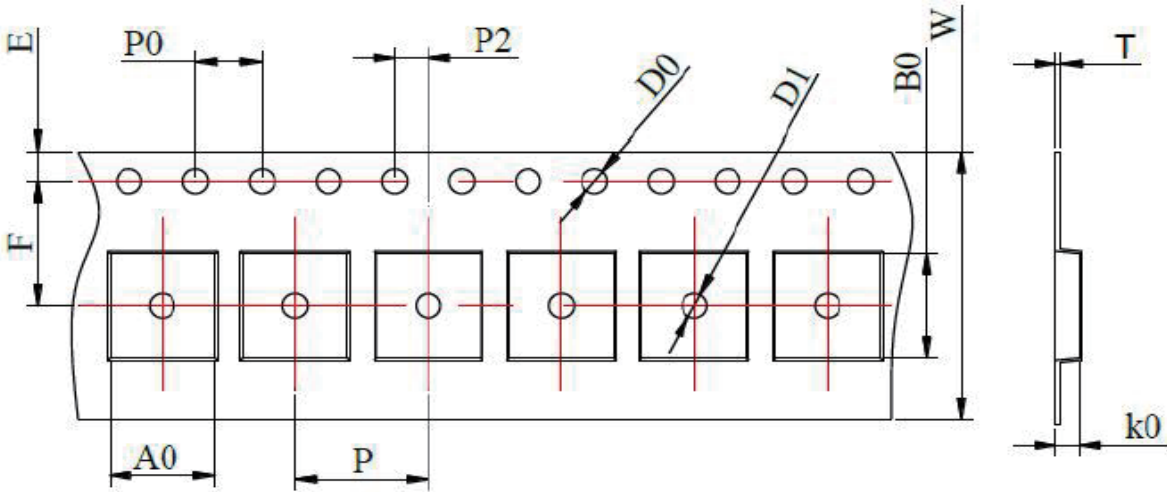
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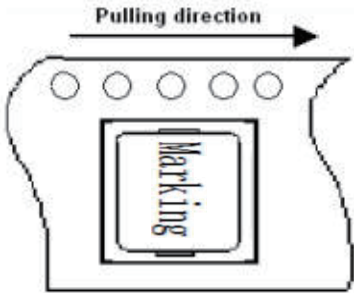
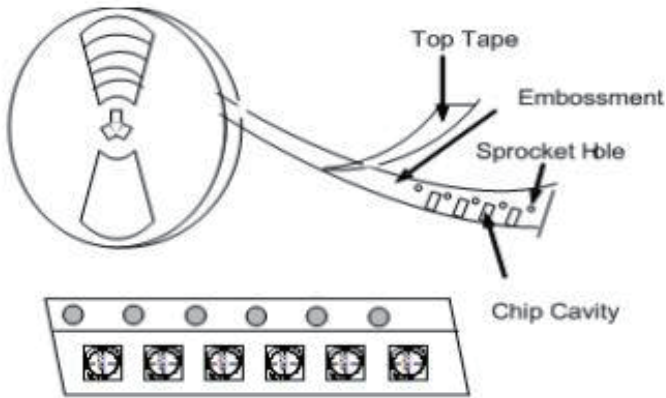
REACH & RoHS
COMPLIANT

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
WHYT1030	24 ±0.3	16 ±0.1	4 ±0.1	2 ±0.05	1.5 ±0.1	1.5 ±0.1	0.35 ±0.05	10.4 ±0.1	11.6 ±0.1	3.3 ±0.1	1.75 ±0.1	11.5 ±0.1

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REMARK:

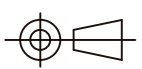
SIZE
A4

SACLE
1:1

SHEET
5/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

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

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

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

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

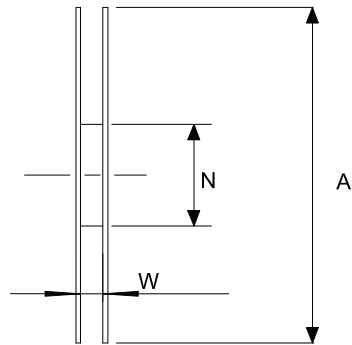
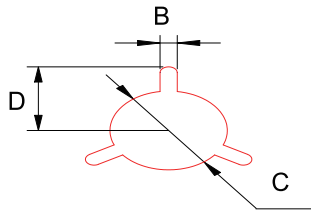
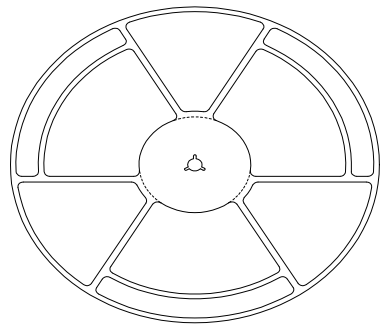
APPROVED BY:
Geoffrey.Song

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	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
WHYT1030	800 pcs / reel	2Reel / box (1600 pcs)	4 Middle boxes, (6400 pcs)

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PART NO.:
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REMARK:

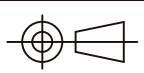
SIZE
A4

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

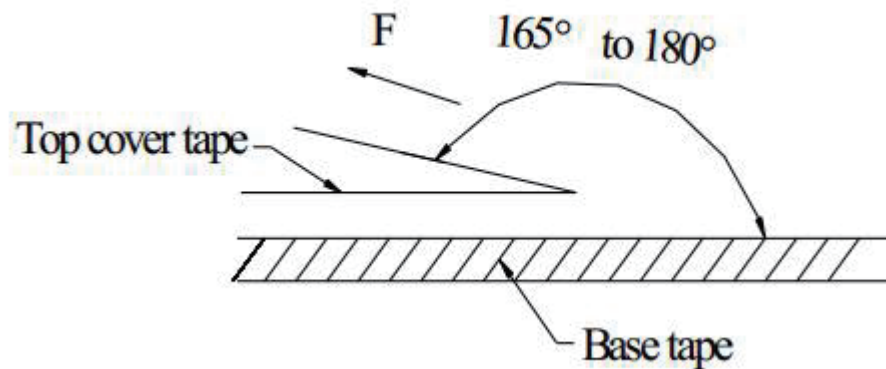
DESIGND BY:
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REACH & RoHS
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(4) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



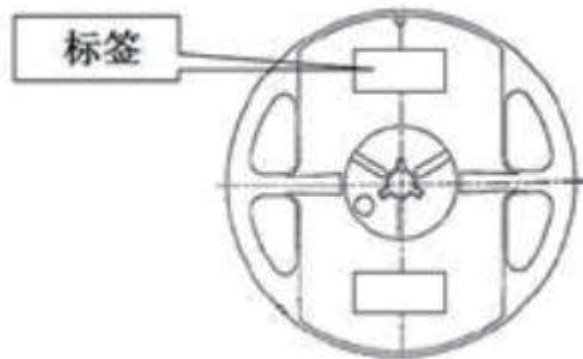
(5) Reel Label

Label on the reel

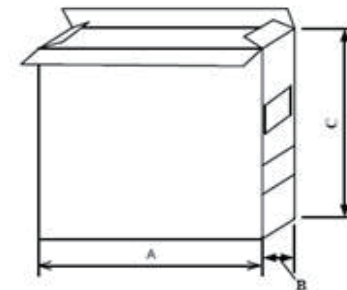
- Customer's part Number
- Lot Number
- Quantity
- date code

Shipping Label

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

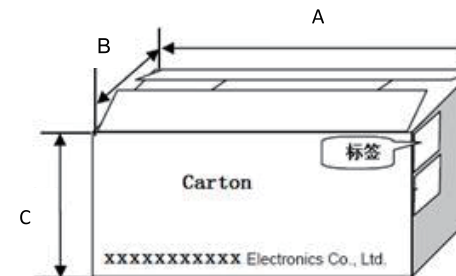


(6) Inner Box



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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TITLE:
YT1030 Series

SIZE
A4

UNITS
MM[INCH]

GENERAL TOLERANCES
UNLESS SPECIFIED

APPROVED BY:
Geoffrey.Song

PART NO.:
YT1030系列规格书

SACLE
1:1

REV
A0

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

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

CHECKED BY:
Elvis.Song

REMARK:

SHEET
7/7



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

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

DESIGND BY:
Sunny.Xu

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