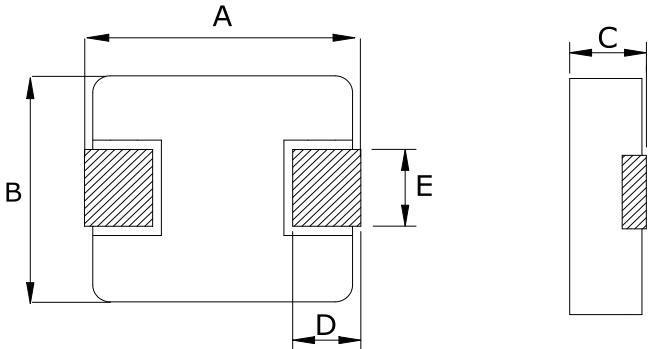
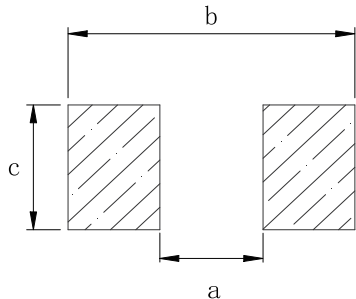
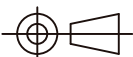


		1	2	3	4	5	6	7	8																
REACH & RoHS COMPLIANT																									
Introduction		Dimensions (unit:mm)																							
• ROHS, Halogen Free and REACH compliance • High rated current • 125℃ maximum total temperature operation • 13.8×12.9×5.0mm maximum surface mount package • Low core loss • Ultra low buzz noise due to molding construction																									
Applications																									
Product Identification		Recommend Land Pattern																							
YT ① 1250 ② --1R5 ③ M ④																									
① YT ----- Series name ② 1250 ----- 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>13.45±0.35</td><td>12.6±0.3</td><td>4.8±0.2</td><td>2.0±0.5</td><td>See remarks</td><td>8</td><td>14.5</td><td>5.5</td></tr></table>								A	B	C	D	E	a typ	b typ	c typ	13.45±0.35	12.6±0.3	4.8±0.2	2.0±0.5	See remarks	8	14.5	5.5
A	B	C	D	E	a typ	b typ	c typ																		
13.45±0.35	12.6±0.3	4.8±0.2	2.0±0.5	See remarks	8	14.5	5.5																		
VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: YT1250 Series		SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song																	
		PART NO.: YT1250系列REV 1.1		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																									

1		2		3		4		5		6		7		8	
REACH & RoHS COMPLIANT															
Part No.		Inductance		DC Resistance		Saturation Current		Heating Rating Current		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.					
		L0 (μH)		DCR (mΩ)		Isat (A)		Irms (A)							
		±20 %, 100 kHz, 1V		MAX.		TYP.		TYP.							
WHYT1250-R22M		0.22		0.7		75		50							
WHYT1250-R36M		0.36		0.85		50		42							
WHYT1250-R50M		0.50		1.15		48		38							
WHYT1250-R68M		0.68		1.55		46		33							
WHYT1250-R82M		0.82		1.67		39		30							
WHYT1250-1R0M		1.0		2.2		35		26							
WHYT1250-1R5M		1.5		3.2		33		23							
WHYT1250-2R2M		2.2		5.0		24		15							
WHYT1250-3R3M-E50		3.3		7		22		14							
WHYT1250-4R7M-E50		4.7		9		20		13							
WHYT1250-6R8M-E50		6.8		18		16		12							
WHYT1250-8R2M-E50		8.2		20		13		9.5							
WHYT1250-100M-E50		10		22		12		9							
WHYT1250-150M-E50		15		30		10		8							
WHYT1250-220M-E50		22		58		6.5		4.5							
WHYT1250-330M-E50		33		84		6.0		3.5							
WHYT1250-470M-E50		47		130		5.0		3.0							
VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd				TITLE: YT1250 Series		SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song					
				PART NO.: YT1250系列REV 1.1		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 3/7		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu					
								.xxx±0.10	.xxx°±1.0°						
1		2		3		4		5		6		7		8	

REACH & RoHS
COMPLIANT

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. $\Delta L/Lo \leq \pm 10\%$	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. $\Delta L/Lo \leq \pm 10\%$	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 $\pm 10\%$ Without distinct damage in appearance	1. First -55℃ for 30 minutes, last 125℃ for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 3 minutes. 3. Measured at room temperature after placing for 24±2 hours
Humidity Resistance	Inductance change: Within $\pm 10\%$ 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 $\pm 10\%$ Without distinct damage in appearance	1. Temperature: -55 $\pm 2^\circ\text{C}$ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours
High temperature storage	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. Temperature: +125 $\pm 2^\circ\text{C}$ 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.

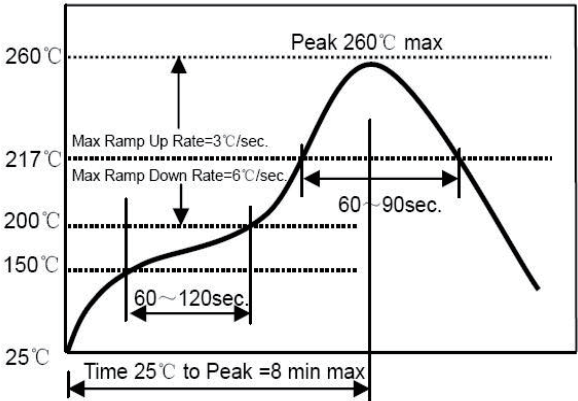
Allowed time above 217℃: 80~120sec.

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

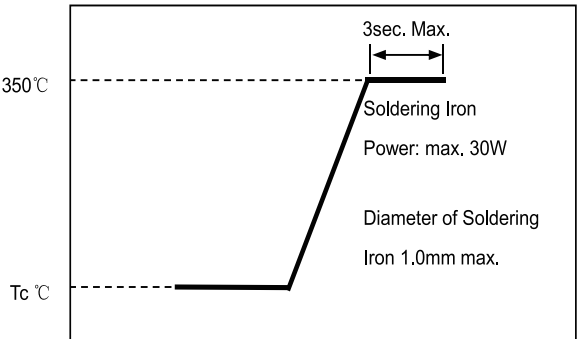
Pre-heating: 150℃/60sec.

Soldering Tip temperature: 350℃ Max.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Max.1 times for iron soldering



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TITLE:
YT1250 Series

PART NO.:
YT1250系列REV 1.1

REMARK:

SIZE
A4

SACLE
1:1

SHEET
4/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

x±0.35	x°±3.0°
.x±0.30	.x°±2.0°
.xx±0.25	.xx°±1.5°
.xxx±0.10	.xxx°±1.0°

APPROVED BY:
Geoffrey.Song

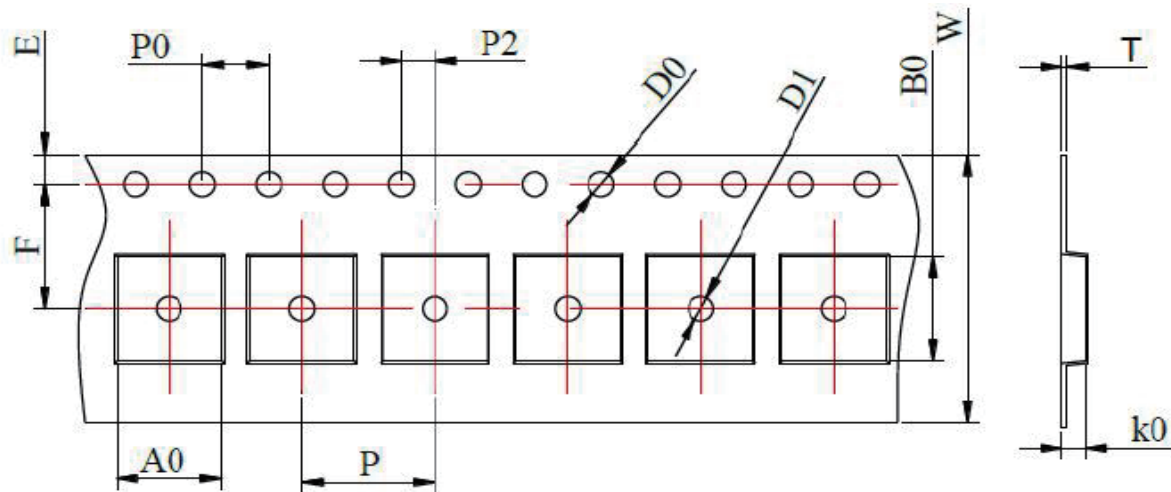
CHECKED BY:
Elvis.Song

DESIGND BY:
Sunny.Xu

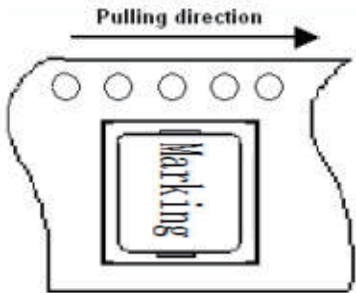
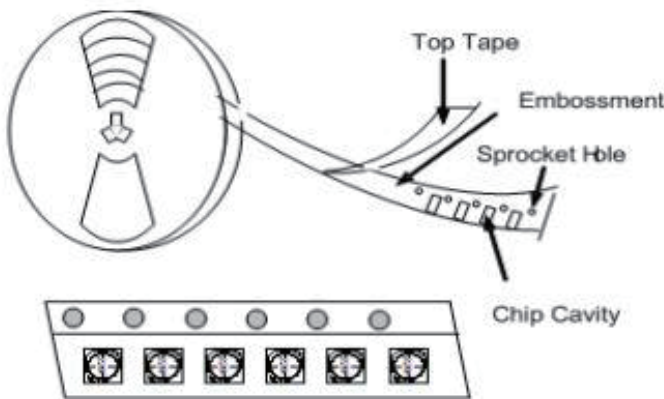
REACH & RoHS
COMPLIANT

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
WHYT1250	24 ±0.3	16 ±0.1	4.0 ±0.1	2.0 ±0.1	1.5 ±0.1	1.5 ±0.1	0.5 ±0.05	13.1 ±0.1	14 ±0.1	5.4 ±0.1	1.75 ±0.1	11.5 ±0.1

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YT1250系列REV 1.1

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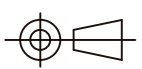
SIZE
A4

SACLE
1:1

SHEET
5/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

x±0.35
.x±0.30

.xx±0.25
.xxx±0.10

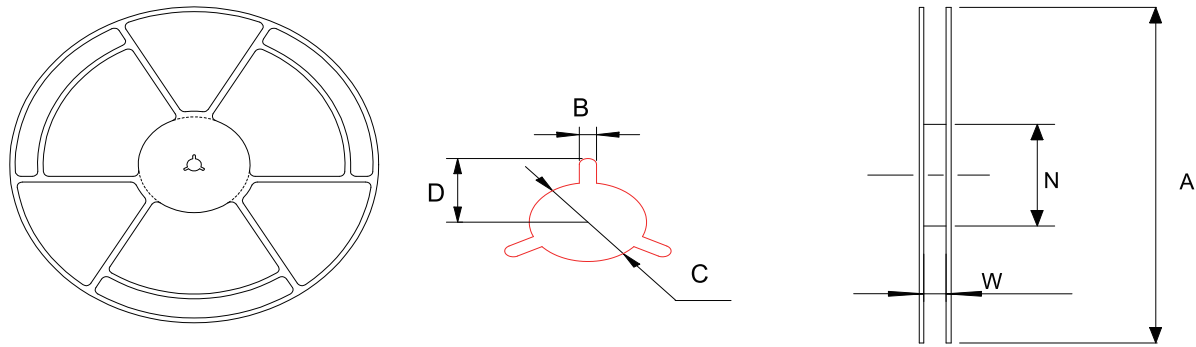
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Geoffrey.Song

CHECKED BY:
Elvis.Song

DESIGND BY:
Sunny.Xu

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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
WHYT1250	500 pcs / reel	2Reel / box (1000 pcs)	4 Middle boxes, (4000 pcs)

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PART NO.:
YT1250系列REV 1.1

REMARK:

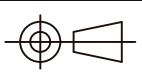
SIZE
A4

SACLE
1:1

SHEET
6/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

x±0.35	x°±3.0°
.x±0.30	.x°±2.0°

.xx±0.25	.xx°±1.5°
.xxx±0.10	.xxx°±1.0°

APPROVED BY:
Geoffrey.Song

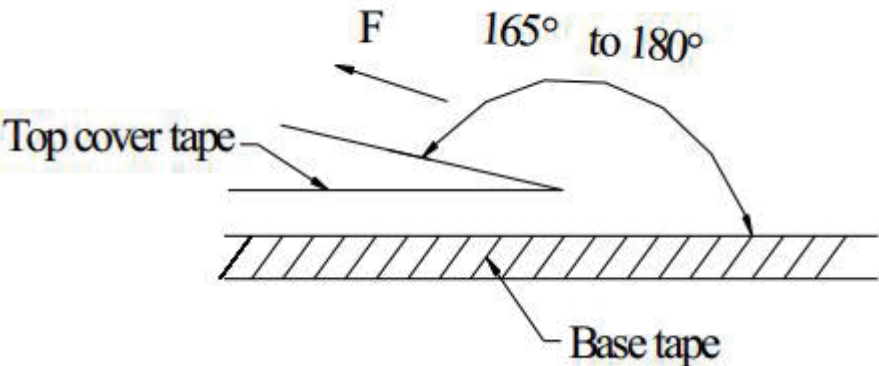
CHECKED BY:
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REACH & RoHS
COMPLIANT

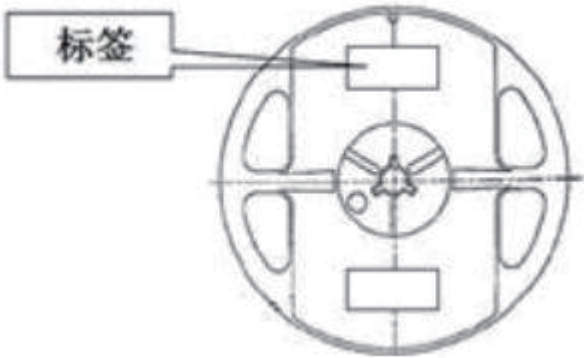
(4) Peel force of top cover tape

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



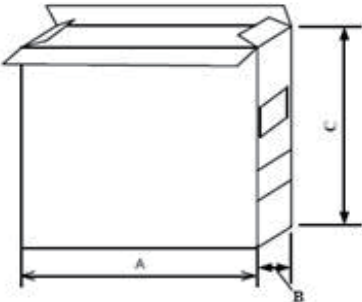
(5) Reel Label

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



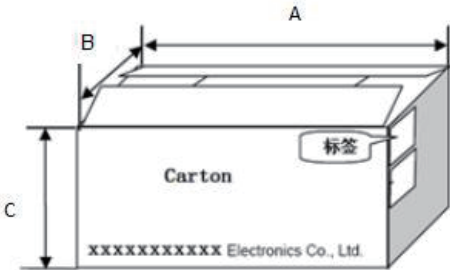
- Shipping Label
- Customer's part Number
 - Manufacturer's part Number
 - Quantity
 - date code

(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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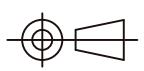
SIZE
A4

SACLE
1:1

SHEET
7/7

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

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

APPROVED BY:
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