

REACH & RoHS
COMPLIANT

Introduction

- ROHS, Halogen Free and REACH compliance
- High rated current
- 125℃ maximum total temperature operation
- 13.8×12.9×6.5mm maximum surface mount package
- Low core loss
- Ultra low buzz noise due to molding construction

Applications

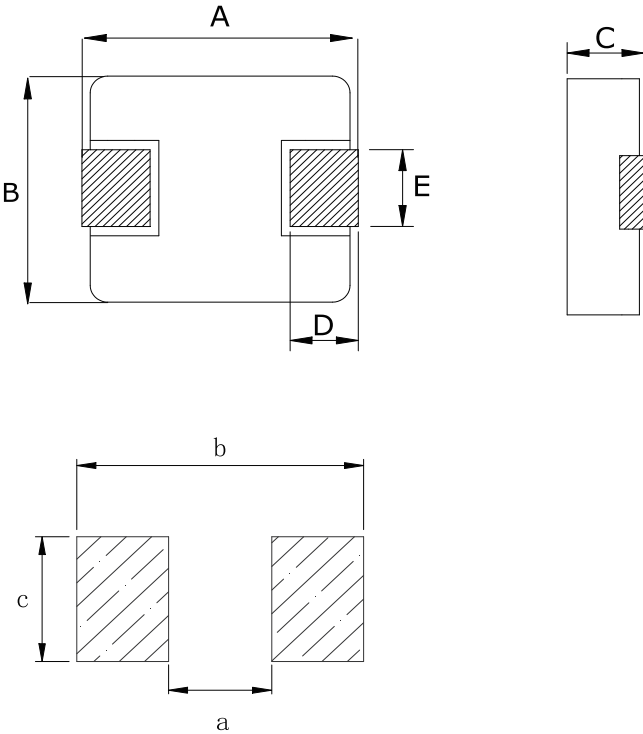
- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

Product Identification

YT 1265 --1R5 M
① ② ③ ④

- ① YT ----- Series name
② 1265 ----- Dimension
③ 1R5 ----- Inductance Value (1R5 = 1.5μH)
④ M -----Inductance Tolerance (M= ± 20%)

Dimensions (unit:mm)



Recommend Land Pattern

A	B	C	D	E	a typ	b typ	c typ
13.45±0.35	12.6±0.3	6.5MAX	2.0±0.5	5.0±0.3	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

TEL: +86 400 1048 018

WEB: WWW.WOHU-TEK.COM

TITLE:
YT1265 Series

PART NO.:
YT1265系列REV 1.0

REMARK:

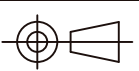
SIZE
A4

SACLE
1:1

SHEET
1/7

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

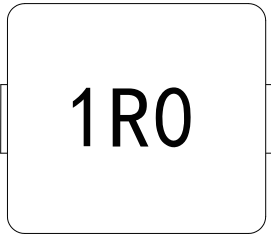
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Marking

The inductor is marked with a 3-digit code

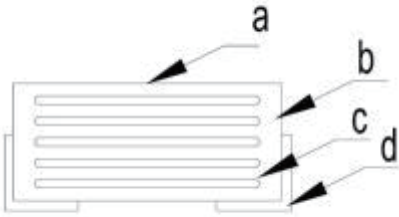
Nominal Inductance	
Example	Nominal Value
1R0	1.0 μ H
100	10 μ H
101	100 μ H

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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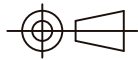
SIZE
A4

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 $^{\circ}$

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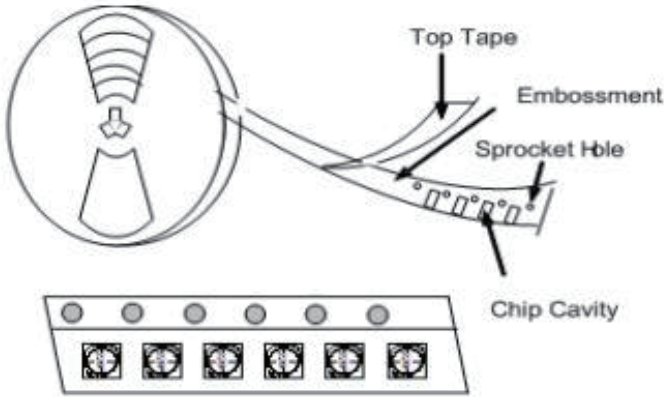
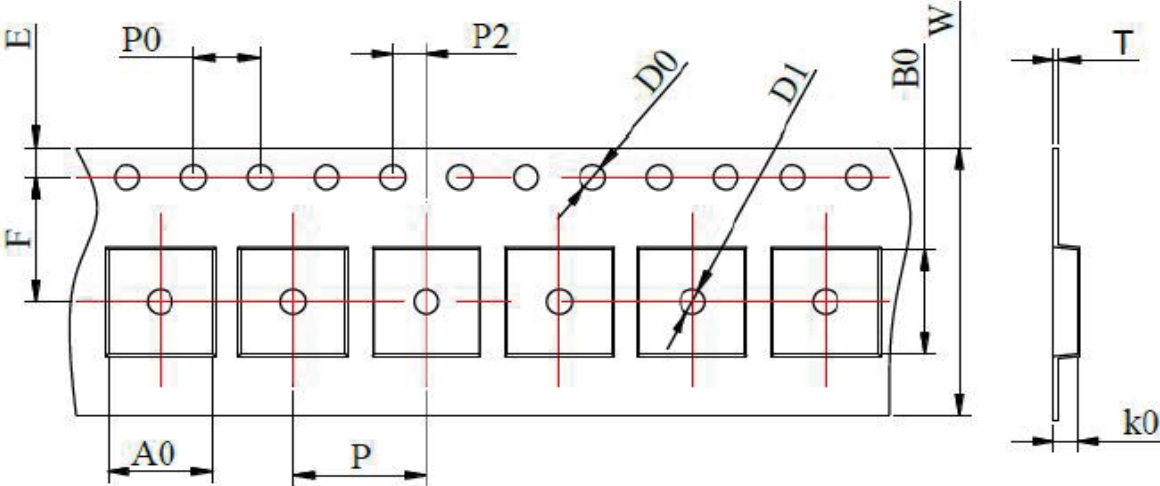
1	2	3	4	5	6	7	8
REACH & RoHS COMPLIANT							
		Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current	
			L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)	
			±20 %, 100 kHz, 1V	MAX.	TYP.	TYP.	
		WHYT1265-4R7M-E50	4.7	8.5	24	16	
		WHYT1265-5R6M-E50	5.6	10.5	22.5	14	
		WHYT1265-6R8M-E50	6.8	12	19	13	
		WHYT1265-8R2M-E50	8.2	14	16	12	
		WHYT1265-100M-E50	10	16.5	15	11	
		WHYT1265-150M-E50	15	26	11	9.5	
		WHYT1265-220M-E50	22	36	9	8	
		WHYT1265-330M-E50	33	65	8	6.5	
		WHYT1265-470M-E50	47	70	6.8	5.5	
		WHYT1265-680M-E50	68	120	5.2	4.8	
		WHYT1265-820M-E50	82	135	4.5	4	
		WHYT1265-101M-E50	100	170	4	3.5	
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.							
 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: YT1265 Series	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
		PART NO.: YT1265系列REV 1.0	SACLE 1:1	REV A0	.xx±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 3/7		.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																																	
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<div><div><h3>Recommended Soldering Technologies</h3><h4>(1)Re-flowing Profile</h4><p>Preheat condition: 150 ~200℃/60~180sec.</p><p>Allowed time above 217℃: 80~120sec.</p><p>Max temp: 260℃</p><p>Max time at max temp: 10 sec.</p><p>Solder paste: Sn/3.0Ag/0.5Cu</p><p>Allowed Reflow time: 2x max</p></div><div></div></div> <div><div><h4>(2)Iron Soldering Profile</h4><p>Iron soldering power: Max. 30W</p><p>Pre-heating: 150℃/60sec.</p><p>Soldering Tip temperature: 350℃ Max.</p><p>Soldering time: 3sec. Max.</p><p>Solder paste: Sn/3.0Ag/0.5Cu</p><p>Max.1 times for iron soldering</p></div><div></div></div>																																									
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TEL: +86 400 1048 018		WEB: WWW.WOHU-TEK.COM		REMARK:	SHEET 4/7		.xx±0.25 .xxx±0.10	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Sunny.Xu																																

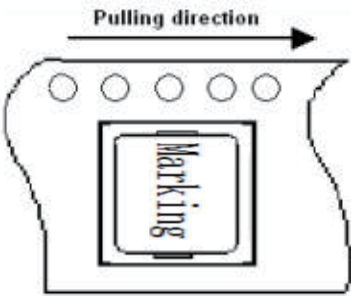
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Packaging Information
(1) Tape Packaging Dimensions (Unit: mm)

Taping Drawings (UNIT:mm)



Type	Tape dimensions (mm)											
	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
WHYT1265	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	6.8 ±0.1	1.75 ±0.1	11.5 ±0.1



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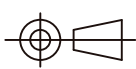
SIZE
A4

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

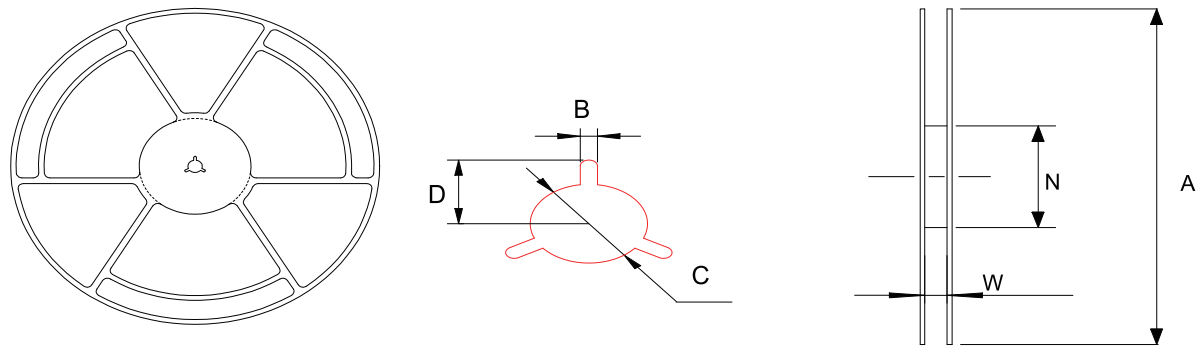
APPROVED BY:
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(2) Reel Dimensions (Unit: mm)



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
WHYT1265	500 pcs / reel	2Reel / box (1000 pcs)	4 Middle boxes, (4000 pcs)

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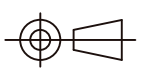
SIZE
A4

SACLE
1:1

SHEET
6/7

UNITS
MM[INCH]

REV
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GENERAL TOLERANCES
UNLESS SPECIFIED

x±0.35
.x±0.30

.xx±0.25
.xxx±0.10

x°±3.0°
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.xx°±1.5°
.xxx°±1.0°

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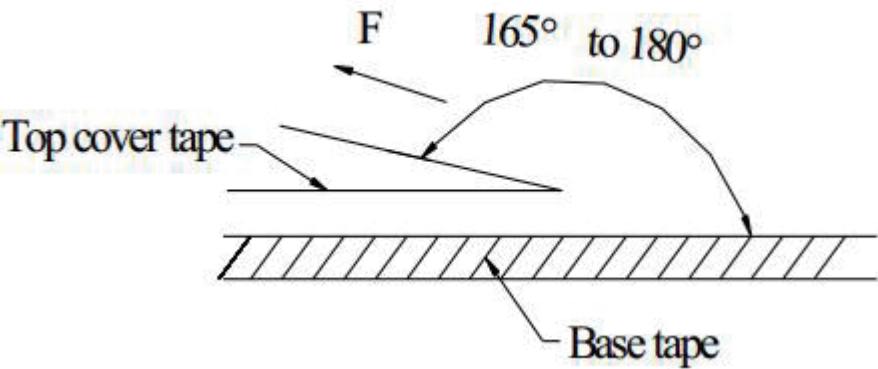
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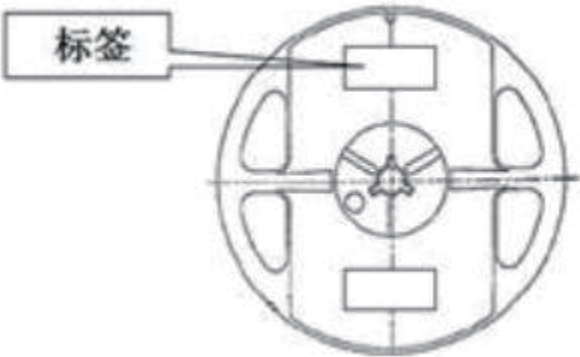
(4) Peel force of top cover tape

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

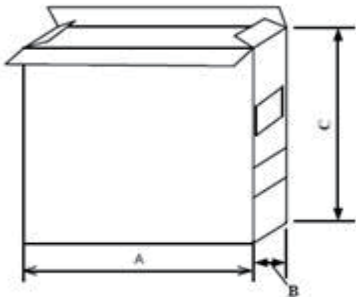
- Label on the reel
- Customer's part Number
 - Lot Number
 - Quantity
 - date code



Shipping Label

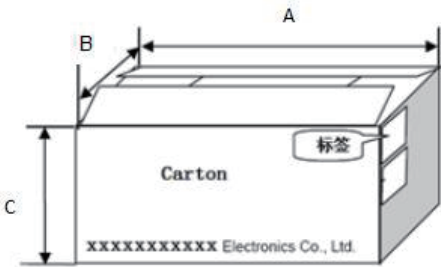
- Customer's part Number
- Manufacturer's part Number
- Quantity
- date code

(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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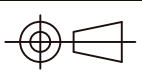
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