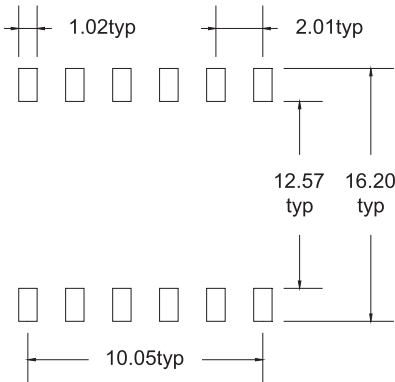
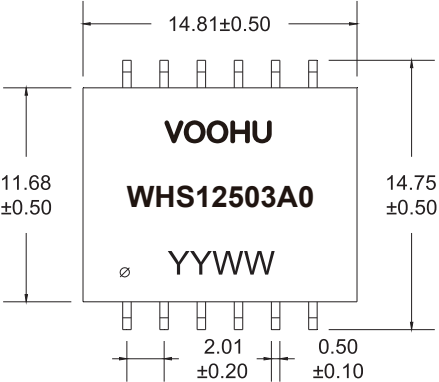
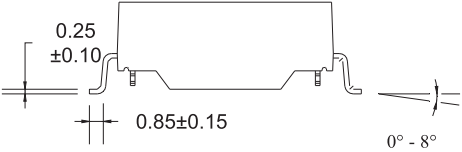
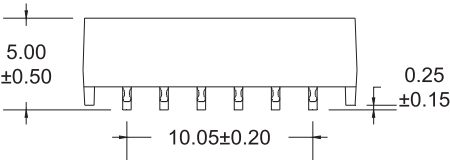


REACH & RoHS  
COMPLIANT

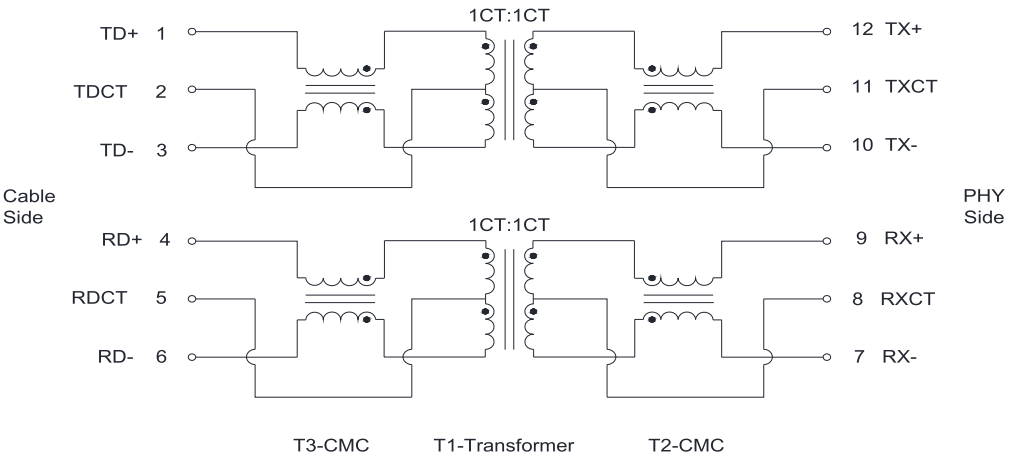
A. MECHANICAL(unit:mm)



Suggested PAD Layout



B. SCHEMATICS



**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](http://WWW.WOHU-TEK.COM)

TITLE:  
10/100Base-TX

PART NO.:  
WHS12503A0

REMARK: BMS Application  
Meet AEC-Q200 Standard

SIZE  
A4

SACLE  
1:1

SHEET  
1/3

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:  
Sunny.Xu

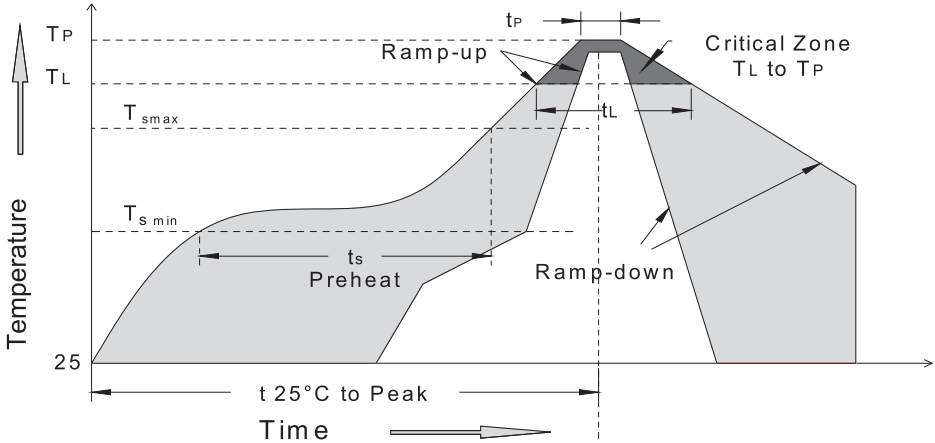
REACH & RoHS  
COMPLIANT

C. ELECTRICAL SPECIFICATIONS @25°C


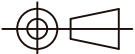
Unless Otherwise Specified, Testing is Performed at 25°C ± 5°C

- 1. OCL(TD & RD): 600uH Min with 100 KHz, 0.1V @25°C  
500uH Min with 100 KHz, 0.1V @-20~+85°C
- 2. Common Mode Choke Inductance: @100KHz, 0.1V  
T3-CMC Inductance: 10-40uH  
T2-CMC Inductance: 5-35uH
- 3. Leakage Inductance:@ 100KHz, 0.1V  
Cable Side Leakage Inductance: 0.6uH Max  
PHY Side Leakage Inductance: 0.6uH Max
- 4. Leakage Inductance Balance (Center Tap Symmetry):  
T3-CMC: 0.9uH Max  
T2-CMC: 0.9uH Max
- 5. DCR(Cable Side & PHY Side): 1400mΩ Max
- 6. Turns Ratio(TD to TX, RD to RX): 1CT:1CT±5%
- 7. Insertion Loss(TD to TX, RD to RX): -0.4 dB Max @ 4 MHz
- 8. Return Loss(TD & RD, TX,RX with 100OHMS Load): -20 dB Min @ 4 MHz
- 9. Cross Talk(Between Each Channel): -50 dB Min @ 4 MHz
- 10. Common Mode Rejection(TD to TX,RD to RX): -35 dB Min @ 1-100 MHz  
-20 dB Min @ 100-1000 MHz
- 11. Differential to common rejection ratio(TD to TX,RD to RX): -35 dB Min @ 1-100MHz  
-20 dB Min @ 100-1000MHz
- 12. Isolation Hipot: 4300VDC 1mA 60S or 3700VAC 1mA 2S
- 13. Qualification: AEC-Q200
- 14. Operating temperature -40°C to +125°C
- 15. Storage temperature -40°C to +125°C

D. RECOMMEND REFLOW SOLDERING CURVE

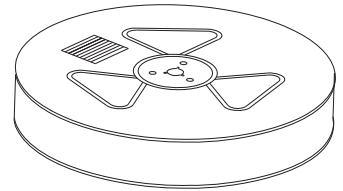
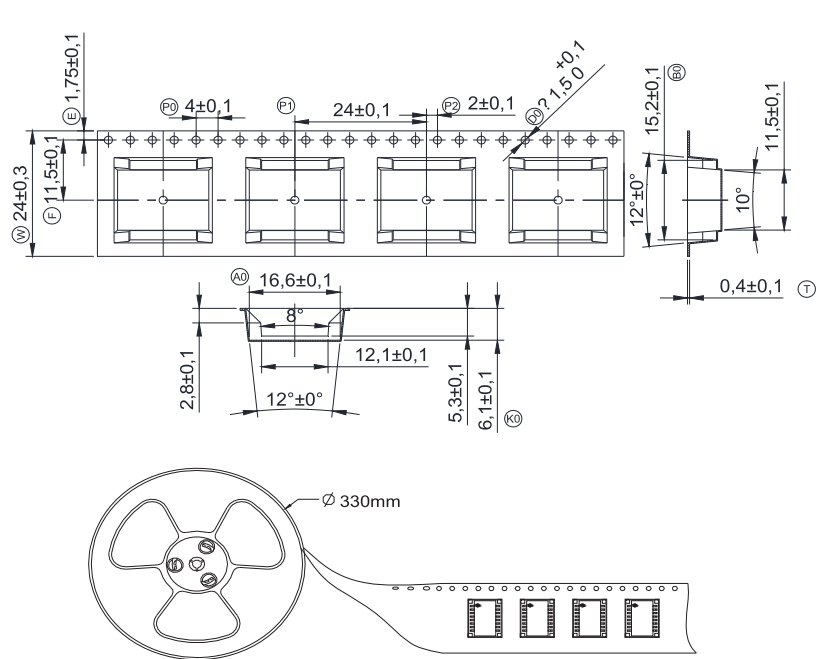


MSL:  
Grade: 1 level. Floor life: 0.5 year Condition:≤30°C/60%RH.  
Ramp up rate=3°C/s max Ramp down rate=6°C/s max  
TL=217°C tL=60s-150s Tp=250+/-3°C Time within 5°C of actual Peak Temperature (tp): 20~40s  
Ts min=150°C Ts max=200°C Ts min to Ts max: 60s-180s, 25°C to peak Temperature: 8minutes max

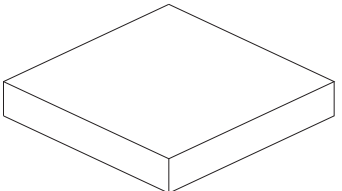
A	 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: 10/100Base-TX	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song	
			PART NO.: WHS12503A0	SACLE 1:1	REV A0	x±0.35 .x±0.30	x°±3.0° .x°±2.0°	CHECKED BY: Elvis.Song	
	TEL: +86 400 1048 018      WEB: <a href="http://WWW.WOHU-TEK.COM">WWW.WOHU-TEK.COM</a>		REMARK: BMS Application Meet AEC-Q200 Standard	SHEET 1/3		.xx±0.25 .xxx±0.10	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Sunny.Xu	

REACH & RoHS  
COMPLIANT

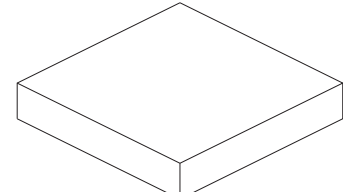
E. PACKAGE INFORMATION



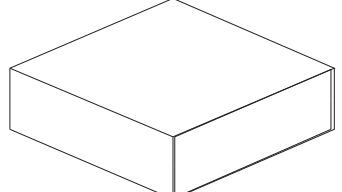
Three Reel



Inner Carton


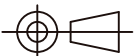


Two Inner Carton



Export Carton

Package Quantity:  
One Reel=300Pcs  
One Inner Carton=300\*3=900Pcs  
One Export Carton=900\*2=1800Pcs

A	 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd		TITLE: 10/100Base-TX	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
			PART NO.: WHS12503A0	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: BMS Application Meet AEC-Q200 Standard	SHEET 1/3		.xx±0.25 .xxx±0.10	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Sunny.Xu