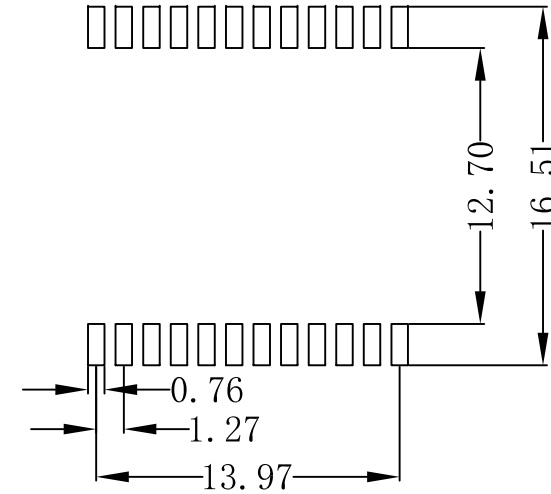
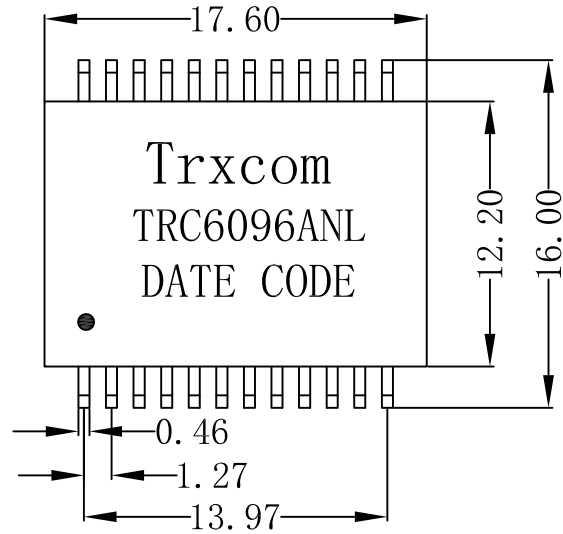
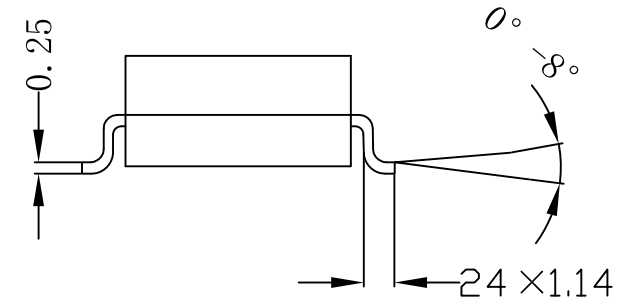
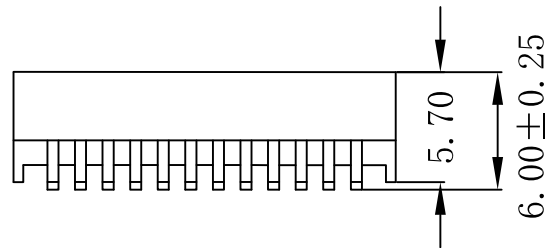


# Mechanical:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		06/11/2009	



SUGGESTED PAD LAYOUT



NOTES:

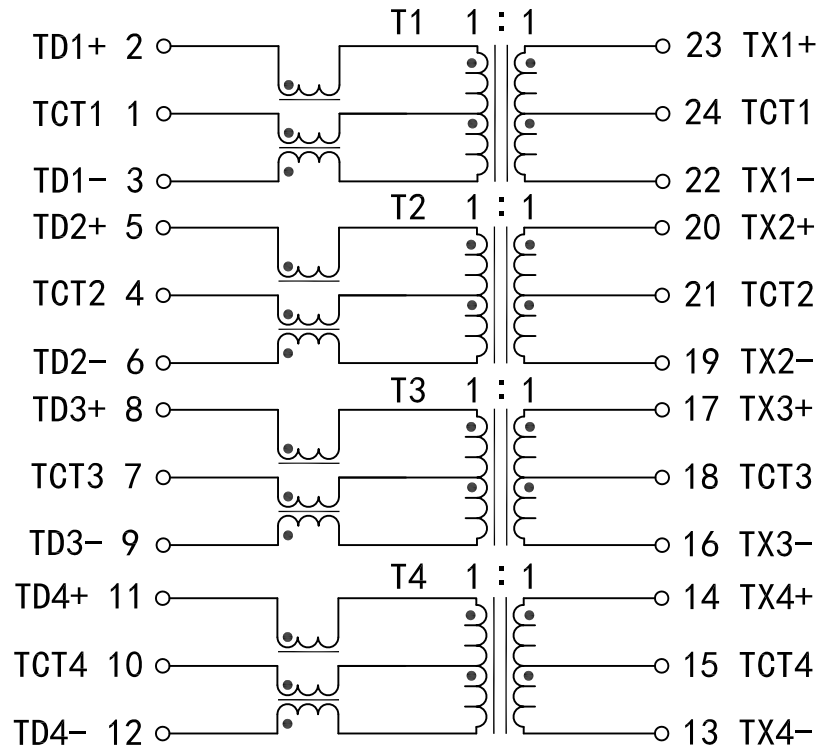
1. Gigabit Transformer Modules With Power Over Ethernet Option
2. Exceeds IEEE 802.3at requirements with up to 1Amp supply current over 2 pairs
3. For RoHS part add suffix NL
4. Maximum reflow temperature is 250°C, 5 Sec.
5. UL Certification: File Number E321120.



X:X	APPD:	<b>Trxcom</b> Huizhou Trxcom Electronics Co., Ltd
X:XX ±0.25	CHKD:	
X:XXX	DR: SEA	TITLE: 1000Base-T Magnetic Modules For PoE+ Application
ANGLES ±1°	UNIT: mm	PART NO.: TRC6096ANL
	SCALE: 2/1	SHEET: 1/4
	REV: A	DWG NO.: TRC09110623

# Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		06/11/2009	



## Electrical Specification @25°C

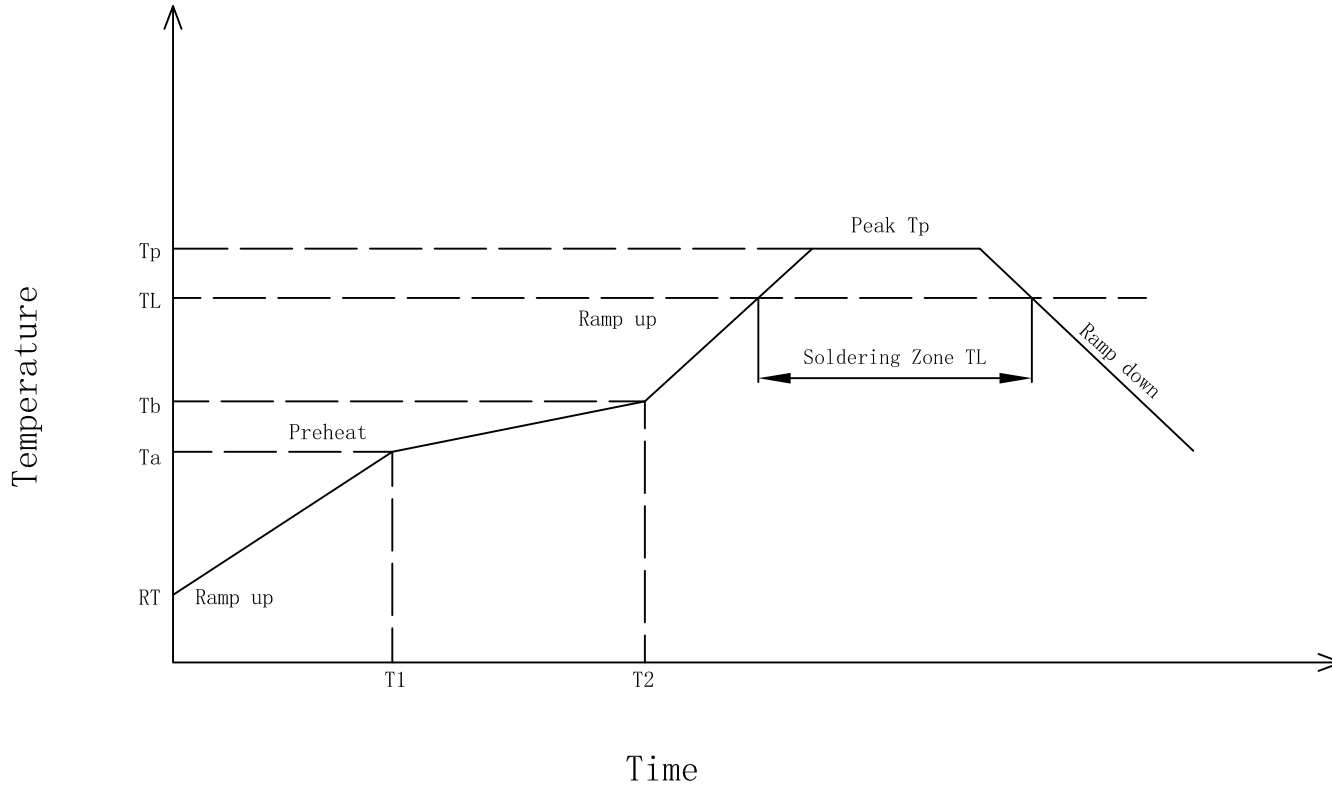
- Turns Ratios ( $\pm 2\%$ ):  
Pri:Sec = 1CT:1CT
- Interwinding capacitance ( $C_{ww}$ ): 20pF Typ. @1 MHz
- Leakage Inductance (LL): 250nH Typ. @ 100kHz, 100mV
- Insertion Loss:  
0.1MHz: -1.2dB Max  
1-125MHz:  $-0.2 - 0.002 * f^{1.4}$  dB Max
- Return Loss ( $Z_{OUT} = 100 \Omega \pm 15\%$ ):  
1-40MHz: -16dB Min  
40-100MHz:  $-10 + 20 * \text{LOG}_{10}(f/80\text{MHz})$  dB Min
- Crosstalk:  
1MHz: -50dB Min  
10-100MHz:  $-55 + 22 * \text{LOG}_{10}(f/10)$  dB Min
- CMRR (dB Min):  
2MHz: -50  
30-200MHz:  $-15 + 20 * \text{LOG}_{10}(f/200)$
- DC Resistance, 1/2 Winding: 0.30  $\Omega$  Typ
- DCR Balance:  $\pm 0.05 \Omega$  Max (Center tap symmetry)
- OCL:  
(1) 350uH Min @20mA DC Bias  
(2) 120uH Min @30mA DC Bias
- Temperature rise of 35°C when supplying  
1 Amp continuous over 2 pairs
- Hipot: 1500Vrms
- Operating Temperature: -40°C ~ +85°C.
- Rated power: 25.5VA max.**



X:X	APPD:	<b>Trxcom</b>		
X:XX $\pm 0.25$	CHKD:	Huizhou Trxcom Electronics Co., Ltd		
X:XXX	DR: SEA	TITLE: 1000Base-T Magnetic Modules For PoE+ Application		
ANGLES $\pm 1^\circ$	UNIT: mm	PART NO.: TRC6096ANL		
	SCALE: 2/1	SHEET: 2/4	REV: A	DWG NO.: TRC09110623

# IR Reflow:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		06/11/2009	



Preheat:  
 Temperature (Ta-Tb) : 150-200°C  
 Time (T1-T2) : 60-180s

Holding Temperature: 217°C  
 Time (TL) : 60-150s

Max Temperature (Tp) : 250 (+0/-5°C)  
 Max Time (Tp) : 30s

The average speed: 3°C/S Max  
 The average cooling speed: 6°C/S Max

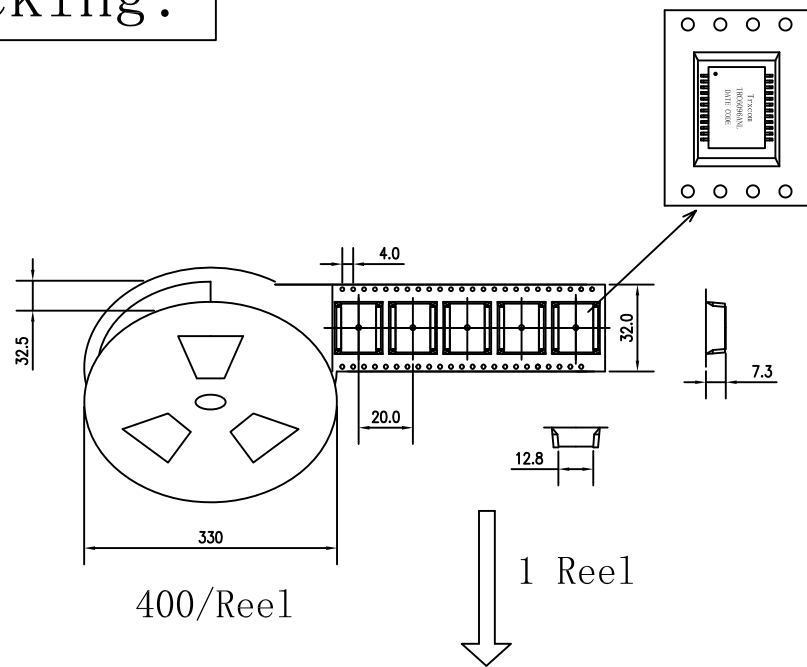
From 25°C to Products out of the furnace: 6 minutes Max



X:X	APPD:	<b>Trxcom</b> Huizhou Trxcom Electronics Co., ltd
X:XX ±0.25	CHKD:	
X:XXX	DR: SEA	TITLE: 1000Base-T Magnetic Modules For PoE+ Application
ANGLES ±1°	UNIT: mm	PART NO.: TRC6096ANL
	SCALE: 2/1	SHEET: 3/4
	REV: A	DWG NO.: TRC09110623

# Packing:

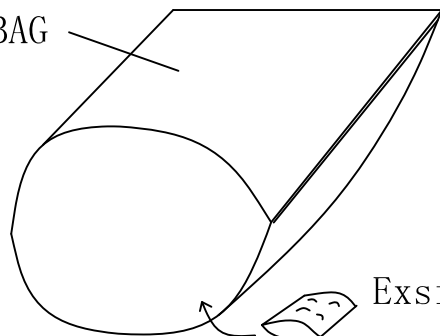
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		06/11/2009	



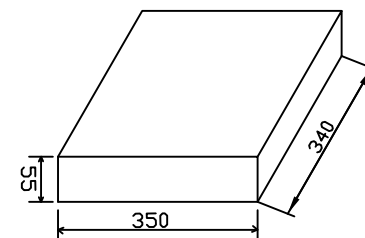
400/Reel

1 Reel

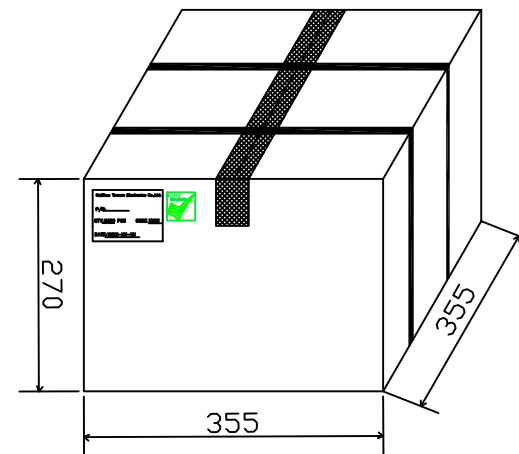
PE BAG



Exsiccators



6 Inner Carton



- ◆ Packaging unit: 400pcs/reel
- ◆ Packaging way: Carrier tape
- ◆ Outer carton unit: 2400pcs/6 Inner Carton/box
- ◆ Net Weight: 6.5kg
- ◆ Gross Weight: 7.5kg

X:X	APPD:	<b>Trxcom</b>		
X:XX ±0.25	CHKD:	Huizhou Trxcom Electronics Co.,ltd		
X:XXX	DR: SEA	TITLE: 1000Base-T Single Port Transformer Modules For PoE++ Application		
ANGLES ±1°	UNIT: mm	PART NO.: TRC6096ANL		
	SCALE: 2/1	SHEET: 4/4	REV: A	DWG NO.: TRC09110623