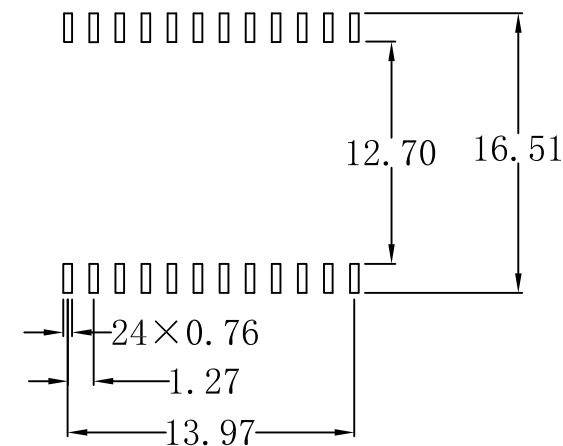
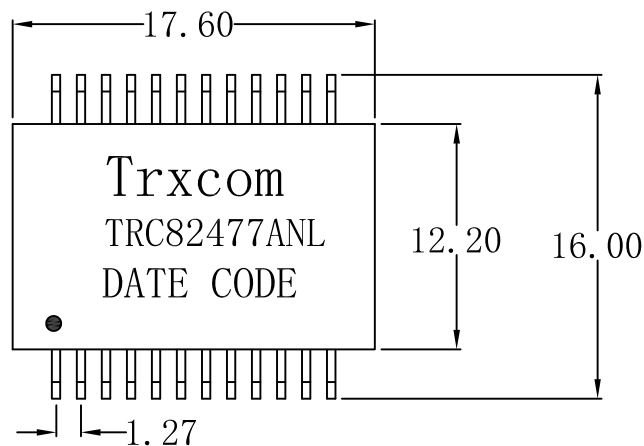
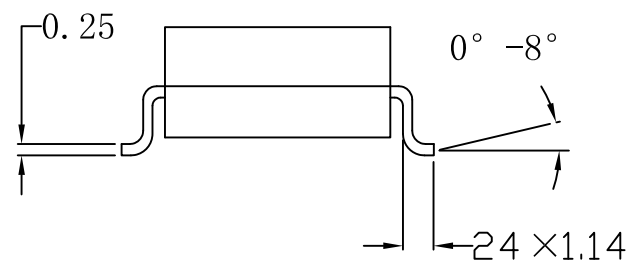
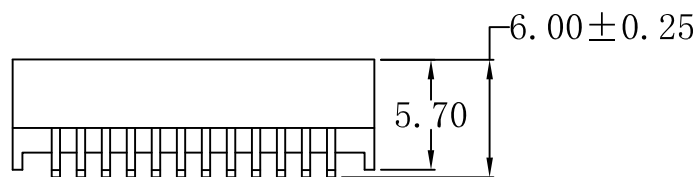


Mechanical :

| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|-------------|------------|------|
| A | REL | | 2016-04-02 | |



SUGGESTED PAD LAYOUT



NOTES:

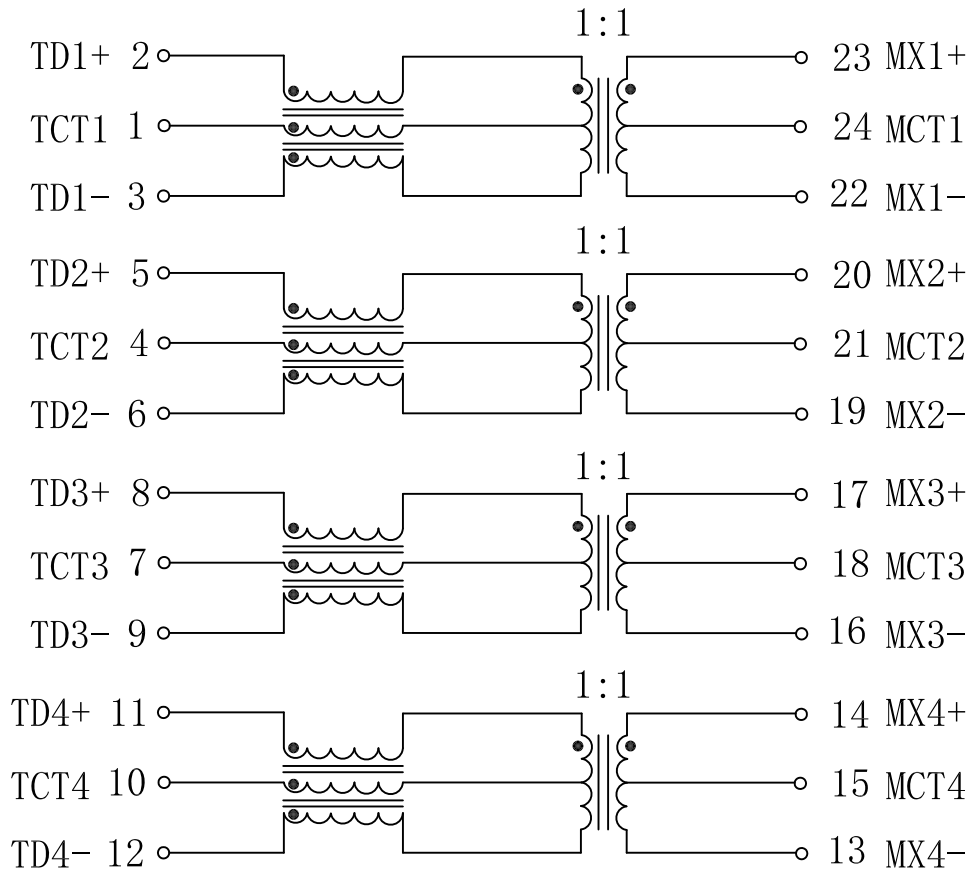
1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3at specification.
3. Maximun reflow temperature is 250°C, 5 Sec.
4. UL certification: file number E321120



| | | |
|------------|------------|--|
| X:X | APPD: | Trxcom HuiZhou Trxcom Electronics Co.,Ltd. |
| X:XX ±0.25 | CHKD: | |
| X:XXX | DR: SEA | TITLE: 1000Base-T Single Port Transformer Modules For PoE+ Application |
| ANGLES ±1° | UNIT: mm | PART NO.: TRC82477ANL |
| | SCALE: 2/1 | SHEET: 1/2 |
| | REV: A | DWG NO.: TRC16040201 |

Schematic:

| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|-------------|------------|------|
| A | REL | | 2016-04-02 | |



ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio($\pm 3\%$):
TX=1CT:1CT RX=1CT:1CT
- Inductance OCL:
120uH MIN @ 100KHz 0.1V 28mA DC Bias
- DC Resistance: 0.30 OHMS TYP.
- Insertion Loss:
-1.2dB MAX @ 100MHz
-0.2-0.002*f^{1.4} dB MAX @ 1-125 MHz
- Return Loss:
-16dB MIN @ 1-40MHz
-10+20*LOG₁₀(f/80 MHz)dB MIN @ 40-100 MHz
- Cross talk:
-50dB MIN @ 1MHz
-55+22*LOG₁₀(f/10) dB MIN @ 10-100 MHz
- Common Mode Rejection:
-50dB MIN @ 2MHz
-15+20*LOG₁₀(f/200) dB MIN @ 30-200 MHz
- DC Current/Voltage Rating:
1200mA @ 57 V (Continuous)
- Hipot Test:1500Vrms
- Operating Temperature Range: -40°C TO +85°C
- Rated power: 25.5VA max



| | | | |
|------------|------------|--|----------------------------------|
| X:X | APPD: | Trxcom | |
| X:XX ±0.25 | CHKD: | HuiZhou Trxcom Electronics Co.,Ltd. | |
| X:XXX | DR: GRANT | TITLE: 1000Base-T Single Port Transformer Modules For PoE+ Application | |
| ANGLES ±1° | UNIT: mm | PART NO.: TRC82477ANL | |
| | SCALE: 2/1 | SHEET: 2/2 | REV: A DWG NO.: TRC16040201 |