



## Dual Ports 10/100 Base-TX High Speed LAN Magnetic Modules For Various Transceiver ICs to work with single row RJ-45

- Designed to meet IEEE 802.3 and ANSI X3.263 standard including 350uH OCL with 8 mA bias
- Excellent EMI and Differential to Common Mode Rejection performance
- Designed to meet IR reflow at 235 Degree C peak temperature
- Available with various pinout for flexible circuit board layout
- Custom design with other transmit T/Rs, pinouts, packages and/or phase flipped are available on request



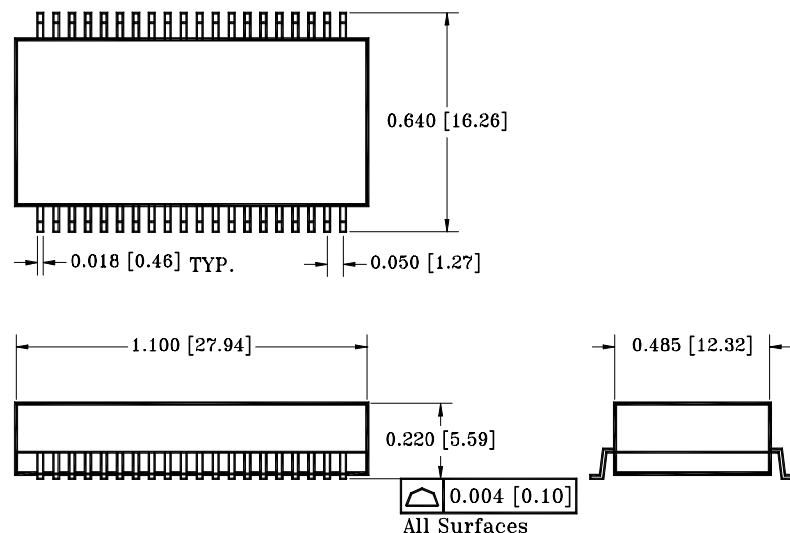
Operating Temperature: -25°C to +55°C

Storage Temperature: -55°C to +80°C

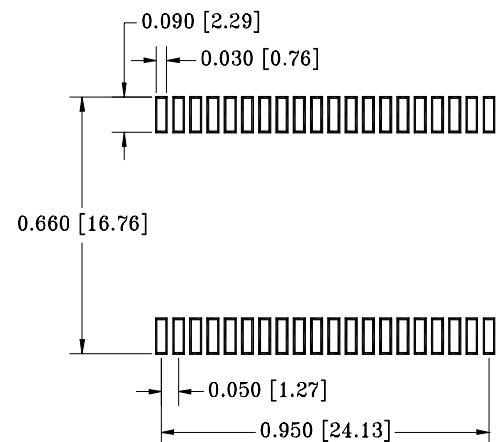
### Electrical Specifications at 25°C:

| Part Number | Circuit | Transmit Turns Ratio | Insertion Loss dB (Max)<br>0.1-100MHz | Differential to Common Mode Rejection (dB Typ.) | Common to Common Mode Rejection (dB Typ.) | Return Loss dB (Typ.) |       |       | Crosstalk dB (Typ.)<br>1-100MHz | Hipot Vrms (Min) |
|-------------|---------|----------------------|---------------------------------------|-------------------------------------------------|-------------------------------------------|-----------------------|-------|-------|---------------------------------|------------------|
|             |         |                      |                                       | 0.1-100MHz                                      |                                           | 30MHz                 | 60MHz | 80MHz |                                 |                  |
| NT805-801   | 1       | 1CT:1CT              | -1                                    | -40                                             | -30                                       | -16                   | -13   | -10   | -40                             | 1500             |
| NT805-802   | 2       | 1CT:1CT              | -1                                    | -40                                             | -30                                       | -16                   | -13   | -10   | -40                             | 1500             |
| NT805-803   | 3       | 1CT:1CT              | -1                                    | -40                                             | -30                                       | -16                   | -13   | -10   | -40                             | 1500             |
| NT805-851   | 1       | 2CT:1CT              | -1                                    | -40                                             | -30                                       | -16                   | -13   | -10   | -40                             | 1500             |
| NT805-852   | 1       | 1.25CT:1CT           | -1                                    | -40                                             | -30                                       | -16                   | -13   | -10   | -40                             | 1500             |
| NT805-853   | 1       | 1.414CT:1CT          | -1                                    | -40                                             | -30                                       | -16                   | -13   | -10   | -40                             | 1500             |

### MECHANICAL

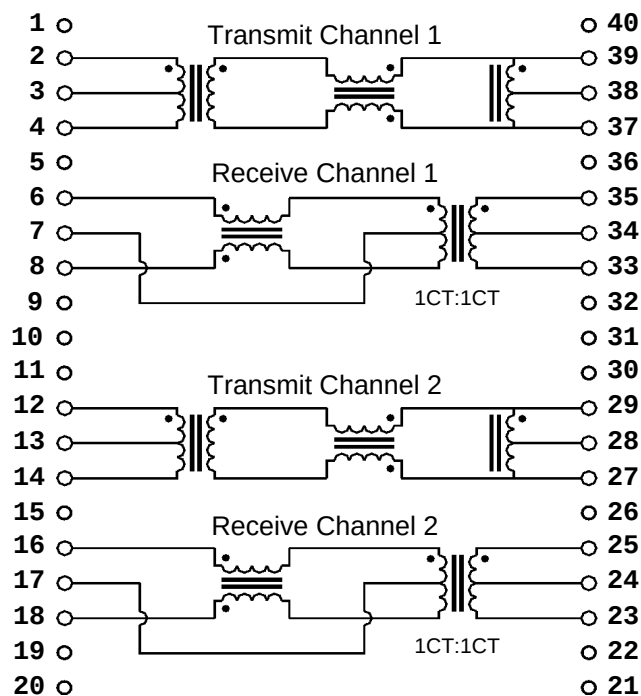


### SUGGESTED PAD LAYOUT

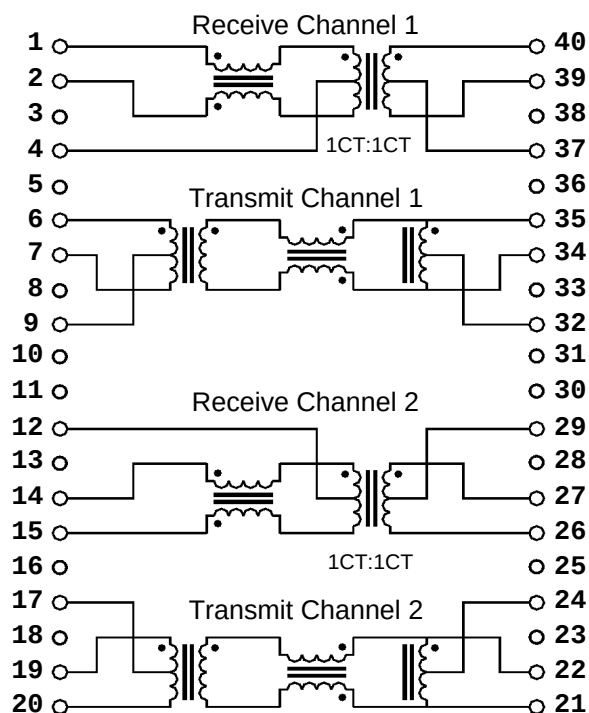


# SCHEMATICS

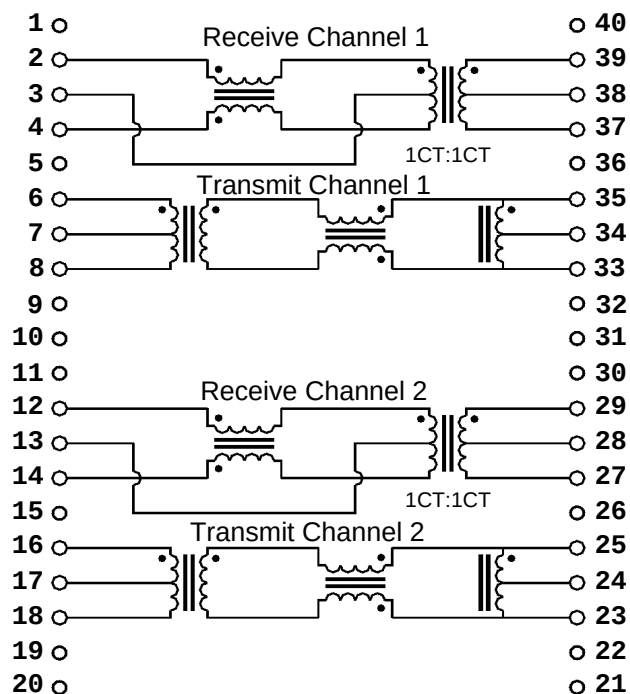
Circuit 1



Circuit 2



Circuit 3



**IC CROSS REFERENCE**

| IC Maker     | IC Part Number                                                    | Available Datatronic Parts      |
|--------------|-------------------------------------------------------------------|---------------------------------|
| Adhoc Tech   | AH104                                                             | NT805-801, NT805-802, NT805-803 |
| AMD          | Am79C871, Am79C872, Am79C873, Am79C972                            | NT805-801, NT805-802, NT805-803 |
| Broadcom     | BCM5201, BCM5203, BCM5205, BCM5208,<br>BCM5216, BCM5218, BCM5308  | NT805-801, NT805-802, NT805-803 |
| Crystal      | CS8952                                                            | NT805-801, NT805-802, NT805-803 |
| Davicom      | DM9101, DM9181                                                    | NT805-801, NT805-802, NT805-803 |
| ICS          | ICS1890, ICS1891, ICS1892                                         | NT805-801, NT805-802, NT805-803 |
| Intel        | S82555, S82558, S82559                                            | NT805-801, NT805-802, NT805-803 |
| Kendin       | KS8765                                                            | NT805-853                       |
| Level One    | LXT970A, LXT976X, LXT978X                                         | NT805-801, NT805-802, NT805-803 |
| Level One    | LXT974A, LXT975A, LXT980, LXT981,<br>LXT982, LXT983               | NT805-851                       |
| Lucent       | LU3X04, LU3X14, LU3X24, LU3X34,<br>LU3X51, LU1X54, LU2X54, LU3X54 | NT805-801, NT805-802, NT805-803 |
| Micro Linear | ML6673                                                            | NT805-801, NT805-802, NT805-803 |
| Mitel        | NWK937, NWK939, NWK954                                            | NT805-801, NT805-802, NT805-803 |
| Myson        | MTD971                                                            | NT805-801, NT805-802, NT805-803 |
| NS           | DP83223, DP83840A                                                 | NT805-801, NT805-802, NT805-803 |
| SEEQ         | 80223, 80225, 81400, 84220, 84225, 88220,<br>88221, 88222, 88223  | NT805-801, NT805-802, NT805-803 |
| TDK          | 78Q2120, 78Q2121                                                  | NT805-801, NT805-802, NT805-803 |
| TI           | TNETE2101, TNETE2104                                              | NT805-801, NT805-802, NT805-803 |
| TOPIC        | TP100, TP110                                                      | NT805-801, NT805-802, NT805-803 |

Please contact us for ICs not listed above. Customer design with other turn ratios and pinouts are available on request.