# P/N: 40ST1053 LF DATA SHEET

## Feature

- IEEE 802.3 Ethernet compatible, 100 BASE-TX
- Surface mountable.
- Design for multi-port repeater and Ethernet switching Hub application.
- Customer designs available for specific application.
- Lead free for external pins.
- Operating temperature range : 0℃ to +70℃.
- Storage temperature range: -25℃ to +125℃.

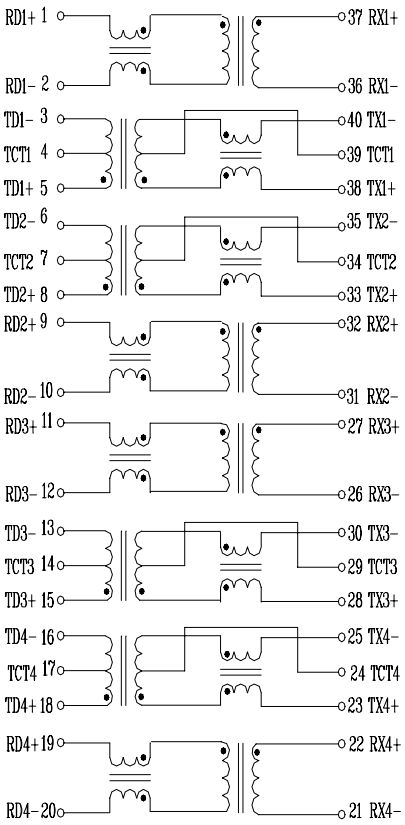
**Electrical Specifications @ 25°C**

| Part Number | Turns Ratio (±5%) | | OCL(uH Min) @100KHz/0.1V with 8mA DC Bias | Rise Time (nS Typ) | HI-POT (Vrms) |
|---|---|---|---|---|---|
| | TX | RX | | | |
| 40ST1053 LF | 1CT:1CT | 1:1 | 350 | 2.5 | 1500 |

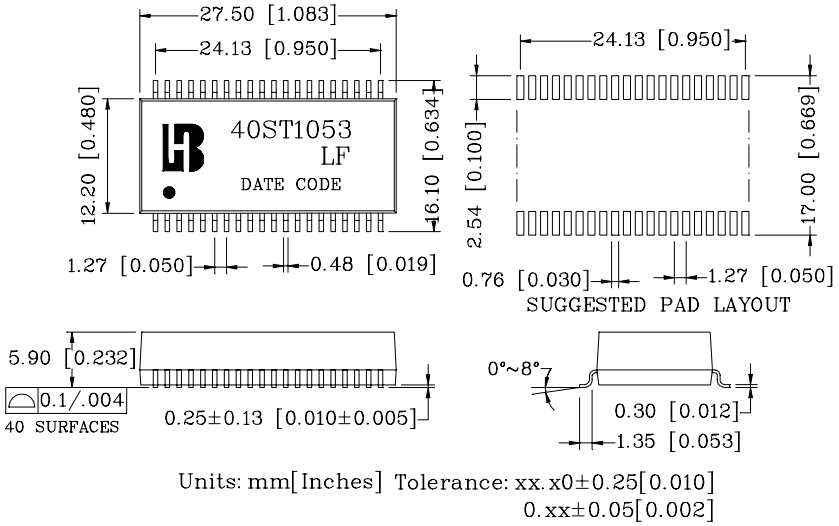
**Continue**

| Part Number | Insertion Loss (dB Max) | Return Loss (dB Min) | | | Cross talk (dB Min) | | DCMR (dB Min) | | |
|---|---|---|---|---|---|---|---|---|---|
| | 0.3–100MHz | 0.3-30MHz | 30-60MHz | 60-80MHz | 0.3-60MHz | 60-100MHz | 60MHz | 100 MHz | 200 MHz |
| 40ST1053 LF | -1.15 | -16 | -12 | -10 | -40 | -35 | -37 | -28 | -25 |

## Schematic




## Mechanical




Units: mm[Inches] Tolerance: xx.x0±0.25[0.010]
0.xx±0.05[0.002]