

## FEATURES:

- Symmetrical TX and RX channels for Auto MDI/MDIX capability
- Compliant with IEEE 802.3u and ANSI X3.263 standards including 350  $\mu$ H OCL with 8 mA bias
- Designed for reflow soldering at temperatures up to 235°C

YUAN DEAN SCIENTIFIC



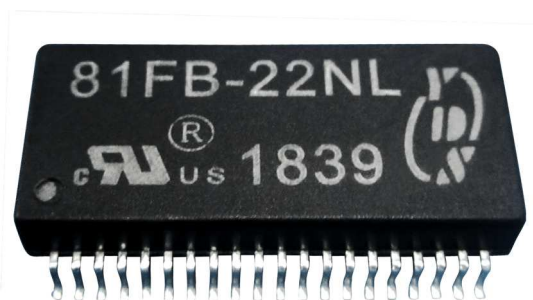
LAN Filters

81FB-2X SERIES

10/100 Base-Tx

For Auto MDI/MDIX

40PIN SOIC



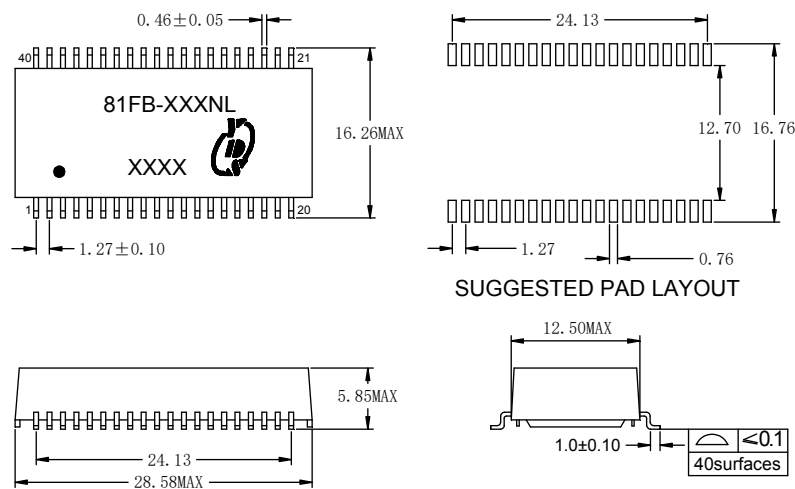
**ELECTRICAL SPECIFICATIONS@25°C**  
**Operating temperature -40°C TO +85°C**

| Part Number | Insertion Loss (dB MAX) | Return Loss (dB MIN) |        |        |           |       | Crosstalk (dB TYP) |        |         |          | Differential to Common Mode Rejection (dB MIN) |       | Hipot Vrms MIN |
|-------------|-------------------------|----------------------|--------|--------|-----------|-------|--------------------|--------|---------|----------|------------------------------------------------|-------|----------------|
|             | .1-100 MHz              | 2-30 MHz             | 40 MHz | 50 MHz | 60-80 MHz | 1 MHz | 30 MHz             | 60 MHz | 100 MHz | 1-60 MHz | 60-100 MHz                                     | @60Hz |                |
| 81FB-22NL   | -0.5                    | -18                  | -14.4  | -13.1  | -12       | -     | -                  | -      | -       | -        | -                                              | -     | 1500           |
| 81FB-22CNL  | -1.4                    | -18                  | -14.4  | -13.1  | -12       | -55   | -45                | -40    | -33     | -37      | -25                                            | -     | 1500           |
| 81FB-24NL   | -1.4                    | -16                  | -10    | -10    | -10       | -35   | -35                | -30    | -25     | -        | -                                              | -     | 1500           |



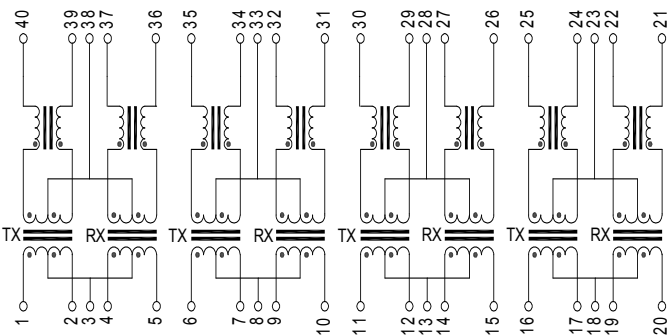
Mechanicals and Dimensions

81FB-2X(Bottom Potting)



Schematics

81FB-22,81FB-22C



81FB-24

