

- Half port and single port designs for maximum layout flexibility.
- Low profile packages from 0.094 Inch(2.39mm) to 0.078 Inch(1.98mm) for PC card and card bus applications .
- Comply with ROHS & Halogen Free requirements.
- Operating temperature range: 0 to +70 .
- Storage temperature range: -25 to +85 .



## Electrical Specifications @ 25

| Part Number | Turn ratio (±3%) |         | Insertion loss (dB Max) | Return loss (dB Min) |           |       |       | Cross talk (dB Min) |
|-------------|------------------|---------|-------------------------|----------------------|-----------|-------|-------|---------------------|
|             | RX               | TX      |                         | 0.3-100 MHz          | 0.5-30MHz | 40MHz | 50MHz |                     |
| NS0013 LF   | 1CT:1CT          | 1CT:1CT | -1.1                    | -18                  | -15.5     | -13.5 | -10   | -38                 |
| NS0013A LF  | 1CT:1CT          | 1CT:1CT | -1.1                    | -18                  | -15.5     | -13.5 | -10   | -38                 |
| NS0013B LF  | 1CT:1CT          | 1CT:1CT | -1.1                    | -18                  | -15.5     | -13.5 | -10   | -38                 |
| NS0013BX LF | 1CT:1CT          | 1CT:1CT | -1.1                    | -18                  | -15.5     | -13.5 | -10   | -38                 |
| NS0013C LF  | 1CT:1CT          | 1CT:1CT | -1.1                    | -18                  | -15.5     | -13.5 | -10   | -38                 |
| NS0013X LF  | 1CT:1CT          | 1CT:1CT | -1.1                    | -18                  | -15.5     | -13.5 | -10   | -38                 |
| NS0068 LF   | 1CT:1CT          | 1CT:1CT | -1.0                    | -                    | -         | -     | -     | -                   |
| NS0068A LF  | 1CT:1CT          | 1CT:1CT | -1.0                    | -                    | -         | -     | -     | -                   |
| NS0068B LF  | 1CT:1CT          | 1CT:1CT | -1.0                    | -                    | -         | -     | -     | -                   |
| NS0068C LF  | 1CT:1CT          | 1CT:1CT | -1.0                    | -                    | -         | -     | -     | -                   |
| NS0068D LF  | 1CT:1CT          | 1CT:1CT | -1.0                    | -                    | -         | -     | -     | -                   |

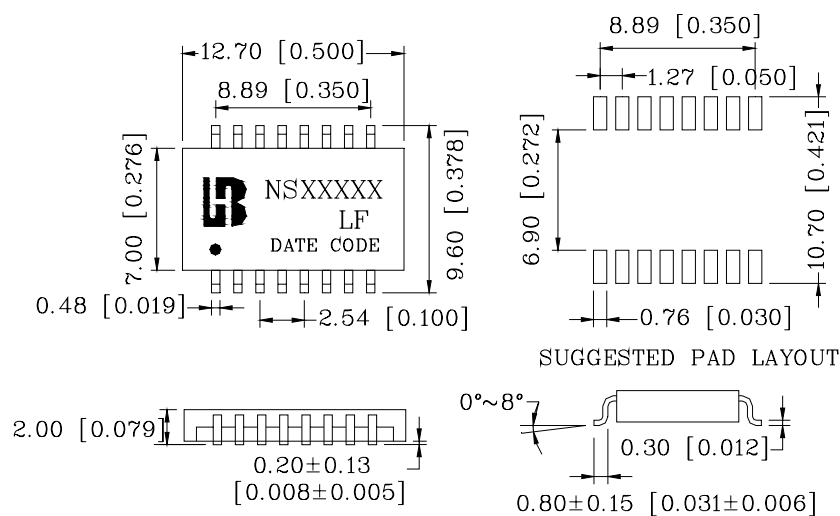
## Continue

| Part Number | OCL(Uh Min)<br>@ 100KHz/0.1V<br>with 8.0Ma DC | HI-POT<br>(Vrms) | Cw/w<br>(pF Max) | Mech | DCMR(Db Min) |             |
|-------------|-----------------------------------------------|------------------|------------------|------|--------------|-------------|
|             |                                               |                  |                  |      | 0.3-60 MHz   | 0.3-100 MHz |
| NS0013 LF   | 350                                           | 1500             | 15               | NS-A | -33          | -26         |
| NS0013A LF  | 440                                           | 1500             | 15               | NS-A | -33          | -26         |
| NS0013B LF  | 350                                           | 1500             | 15               | NS-A | -33          | -26         |
| NS0013BX LF | 350                                           | 1500             | 50               | NS-A | -33          | -26         |
| NS0013C LF  | 350                                           | 1500             | 15               | NS-A | -33          | -26         |
| NS0013X LF  | 350                                           | 1500             | 30               | NS-A | -33          | -26         |
| NS0068 LF   | 350                                           | 1500             | 25               | NS-B | -            | -           |
| NS0068B LF  | 350                                           | 1500             | 25               | NS-B | -            | -           |
| NS0068C LF  | 350                                           | 1500             | 25               | NS-B | -            | -           |
| NS0068D LF  | 350                                           | 1500             | 25               | NS-B | -            | -           |

For customized parts or more detailed information, please log on [www.bothhandusa.com](http://www.bothhandusa.com) or write to [sales@bothhandusa.com](mailto:sales@bothhandusa.com)

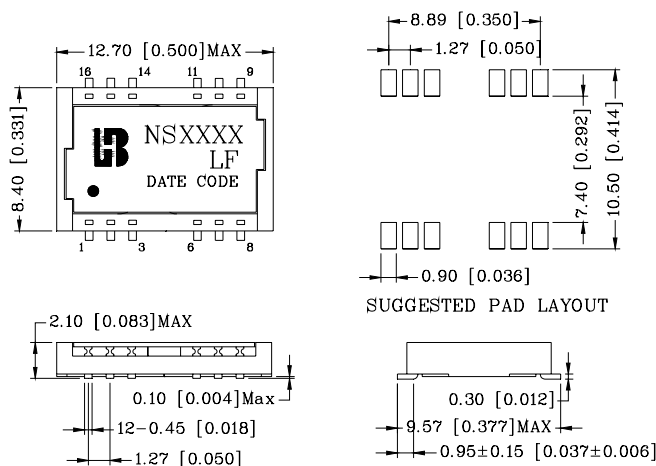
## Mechanicals

### NS-A



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

### NS-B

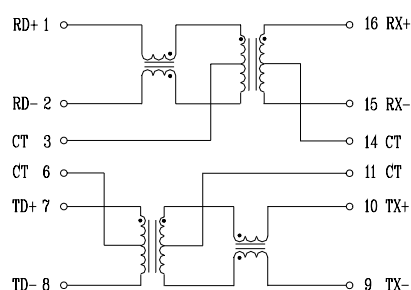


Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]  
0.xx±0.05[0.002]

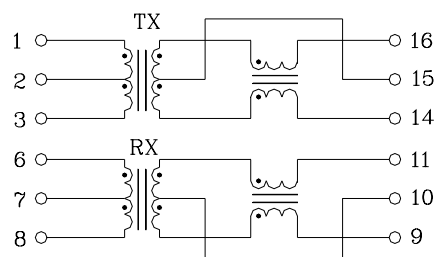
| Specification | Packing Manner | Q'ty per Tube/Reel | Q'ty/ Inner box | Q'ty/ Carton |
|---------------|----------------|--------------------|-----------------|--------------|
| NS-A          | REEL           | 1500               | 1500            | 15000        |
| NS-B          | REEL           | 1500               | 1500            | 15000        |

## Schematics

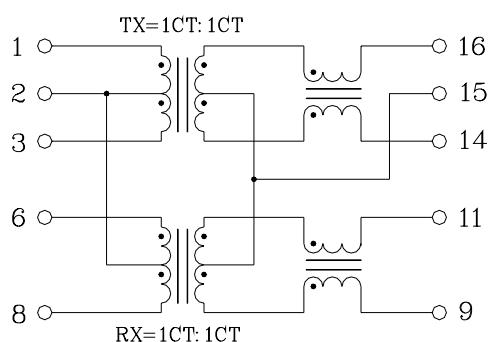
**NS0013 LF /NS0013A LF /NS0068D LF**



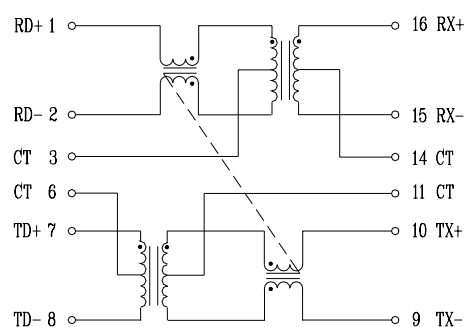
**NS0013B LF /NS0068C LF**



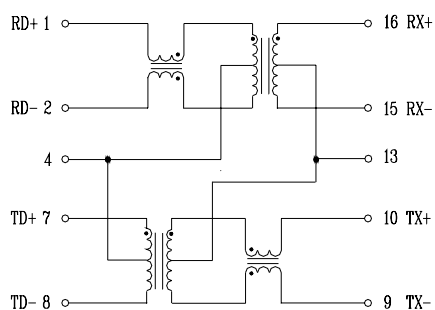
**NS0013BX LF**



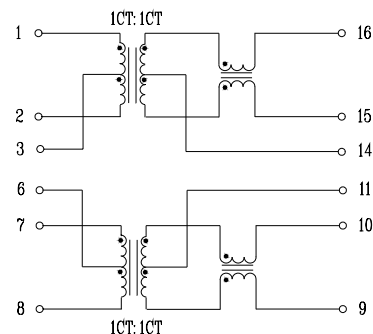
**NS0013C LF**



**NS0013X LF**



**NS0068 LF**



**NS0068B LF**

