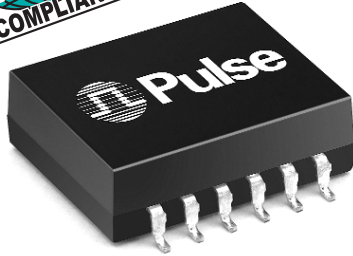


# 10/100BASE-TX SINGLE PORT TRANSFORMER MODULES

## With Various Transmit Turns Ratios



- For RoHS part add suffix **NL**<sup>4</sup>
- Peak solder temperature rating per Table 5-2 in IPC/JEDEC J-STD-020C
- Compact symmetrical size facilitates chip shooter placement and reduces manufacturing time
- Meets IEEE 802.3 specification

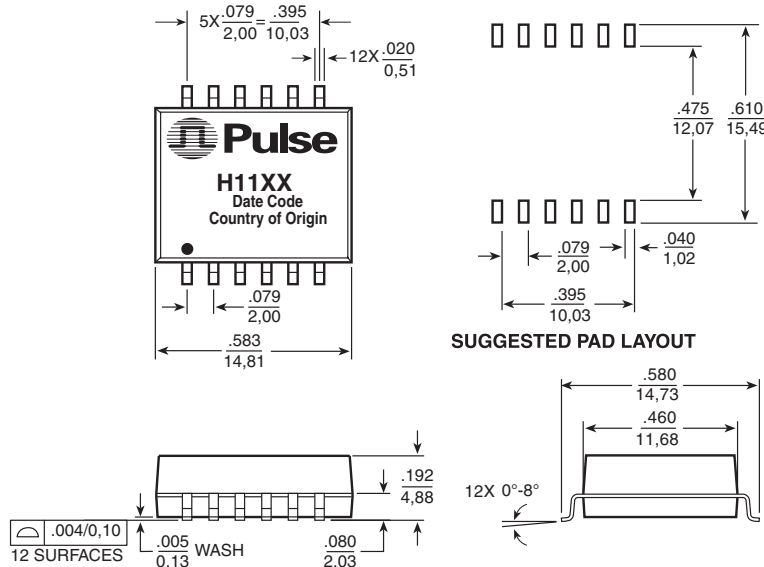
### Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| Part Number | RoHS             | Turns Ratio Transmit | Insertion Loss (dB MAX) | Return Loss Transmit (dB MIN) |       |       |          | Differential to Common Mode Rejection (dB TYP) |       |        |        | Crosstalk (dB MIN) |       |       |        | Hipot (Vrms MIN) |
|-------------|------------------|----------------------|-------------------------|-------------------------------|-------|-------|----------|------------------------------------------------|-------|--------|--------|--------------------|-------|-------|--------|------------------|
|             |                  |                      | 100kHz-100MHz           | 1-30MHz                       | 40MHz | 50MHz | 60-80MHz | 30MHz                                          | 60MHz | 100MHz | 200MHz | 1MHz               | 30MHz | 60MHz | 100MHz |                  |
| H1112       | NL <sup>3c</sup> | 1CT:1CT              | 1.2                     | -16                           | -14   | -13   | -12      | -59                                            | -49   | -42    | -37    | -60                | -40   | -40   | -35    | 1500             |
| H1113       | 2, 3c            | 1CT:1CT              | 1.2                     | -16                           | -14   | -13   | -12      | -55                                            | -45   | -38    | -33    | -60                | -40   | -40   | -35    | 1500             |
| H1126       | 2, 3c            | 1CT:1.414CT          | 1.2                     | -16                           | -14   | -13   | -12      | -59                                            | -49   | -42    | -37    | -60                | -40   | -40   | -35    | 1500             |

- For Tape & Reel packaging, add a "T" suffix at the end of the part number when ordering e.g. H1112T.
- Contact Pulse for RoHS compliant part availability.
- MSL=Moisture Sensitivity Level a=1 b=2 c=3 d=4
- Add suffix **NL** for RoHS compliant parts, e.g. H1112 changes to H1112**NL** or H1112**NLT** (for Tape & Reel).

## Mechanical

### H1112, H1113, H1126



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

Weight .....1.7 grams  
Tape & Reel .....350/reel  
Tube .....30/tube

# 10/100BASE-TX SINGLE PORT TRANSFORMER MODULES

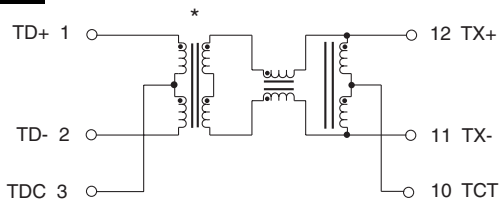
## With Various Transmit Turns Ratios



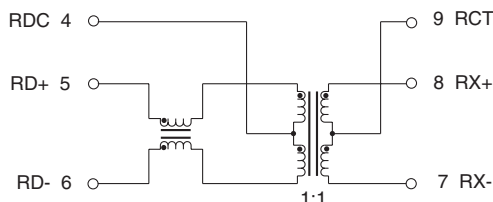
### Schematics

#### H1112, H1126

TRANSMIT



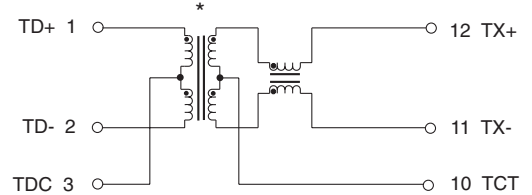
RECEIVE



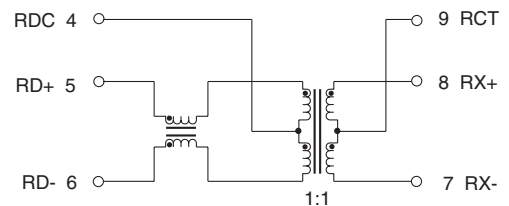
\* Reference Electrical Specifications chart for turns ratio.

#### H1113

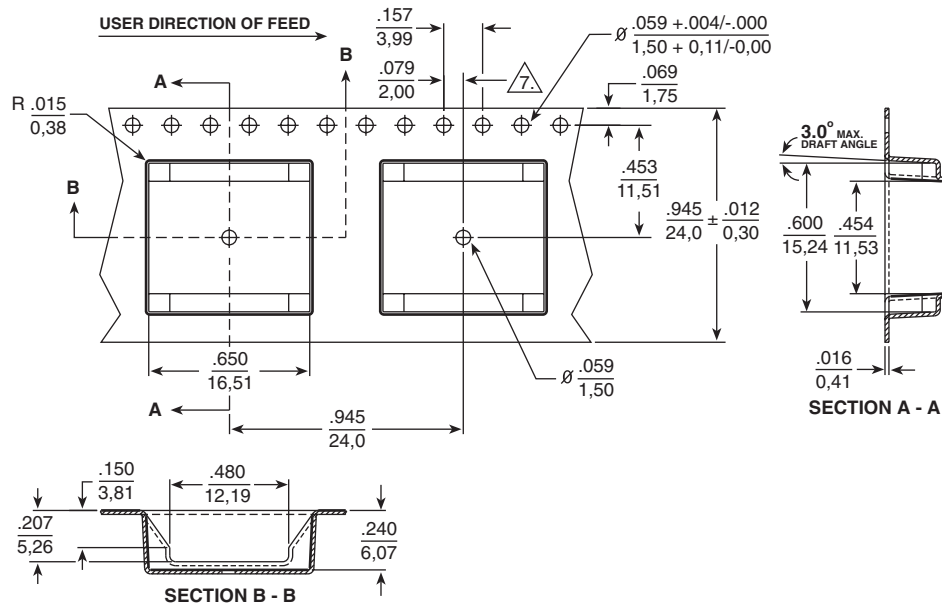
TRANSMIT



RECEIVE



### Tape and Reel Specifications



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