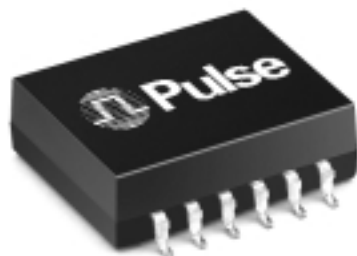


# 10/100BASE-T SINGLE PORT TRANSFORMER MODULES

With Various Transmit Turns Ratios



- Compact symmetrical size facilitates chip shooter placement and reduces manufacturing time
- IEEE 802.3 and ANSI X3.263 compliant including 350  $\mu$ H OCL with 8 mA bias
- IC grade transfer-molded package withstands temperatures over 235°C
- Patented interlock base construction for high reliability

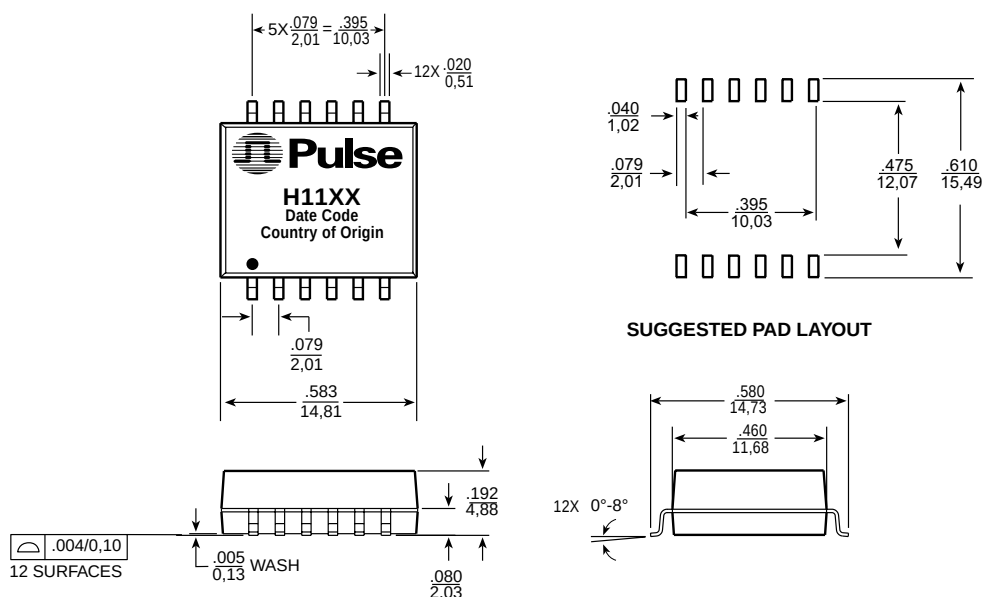
## Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| Part Number | Transmit Turns Ratio | Auto Transformer | Insertion Loss<br>100 KHz-100 MHz<br>(dB MAX) | Return Loss<br>XMIT<br>(dB MIN) |           |           |              | Differential to Common<br>Mode Rejection<br>(dB TYP) |           |            |            | Crosstalk<br>(dB MIN) |           |           |            | Hipot<br>(Vrms MIN) |
|-------------|----------------------|------------------|-----------------------------------------------|---------------------------------|-----------|-----------|--------------|------------------------------------------------------|-----------|------------|------------|-----------------------|-----------|-----------|------------|---------------------|
|             |                      |                  |                                               | 1-30<br>MHz                     | 40<br>MHz | 50<br>MHz | 60-80<br>MHz | 30<br>MHz                                            | 60<br>MHz | 100<br>MHz | 200<br>MHz | 1<br>MHz              | 30<br>MHz | 60<br>MHz | 100<br>MHz |                     |
| H1112       | 1CT:1CT              | YES              | 1.2                                           | -16                             | -14       | -13       | -12          | -59                                                  | -49       | -42        | -37        | -60                   | -40       | -40       | -35        | 1500                |
| H1113       | 1CT:1CT              | NO               | 1.2                                           | -16                             | -14       | -13       | -12          | -55                                                  | -45       | -38        | -33        | -60                   | -40       | -40       | -35        | 1500                |
| H1125       | 2CT:1CT              | NO               | 1.2                                           | -16                             | -14       | -13       | -12          | -55                                                  | -45       | -38        | -23        | -60                   | -40       | -40       | -35        | 1500                |
| H1126       | 1CT: $\sqrt{2}$ CT   | YES              | 1.2                                           | -16                             | -14       | -13       | -12          | -59                                                  | -49       | -42        | -37        | -60                   | -40       | -40       | -35        | 1500                |

U.S. Patent No. 5,015,981

## Mechanical

### H1112, H1113, H1125, H1126



Dimensions: Inches  
mm

Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

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

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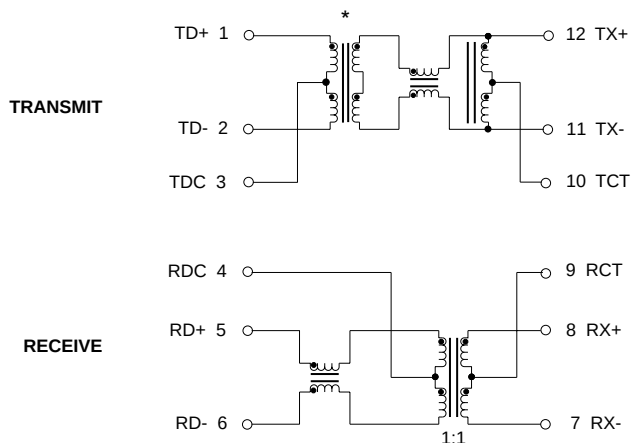
# 10/100BASE-T SINGLE PORT TRANSFORMER MODULES

## With Various Transmit Turns Ratios

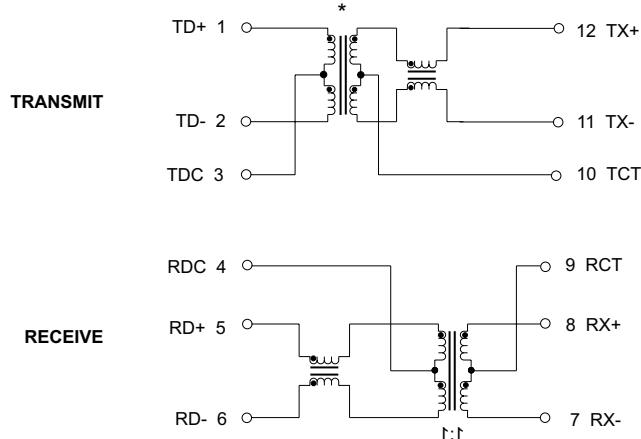


### Schematics

**H1112, H1126**

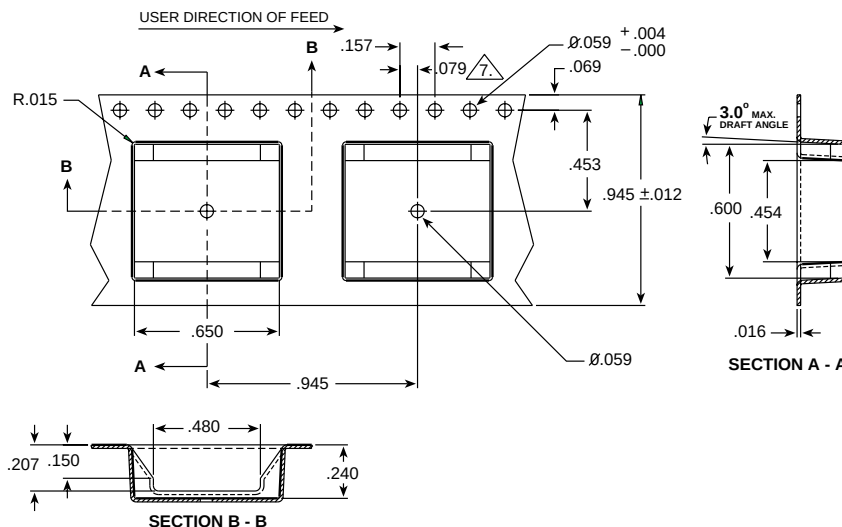


**H1113, H1125**



\* Reference Electrical Specifications chart for turns ratio.

### Tape and Reel Specifications



Modules are packaged in tubes unless Tape and Reel specified. Please add the suffix "T" such as H1112T for Tape and Reel orders.

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