

# 10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS With Various Turns Ratios



- Meets IEEE 802.3 and ANSI X3.263 standards, including 350  $\mu$ H OCL with 8 mA bias
- Designed for reflow soldering at temperatures up to 235°C
- Compact footprint for use in the most space-restrictive applications

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

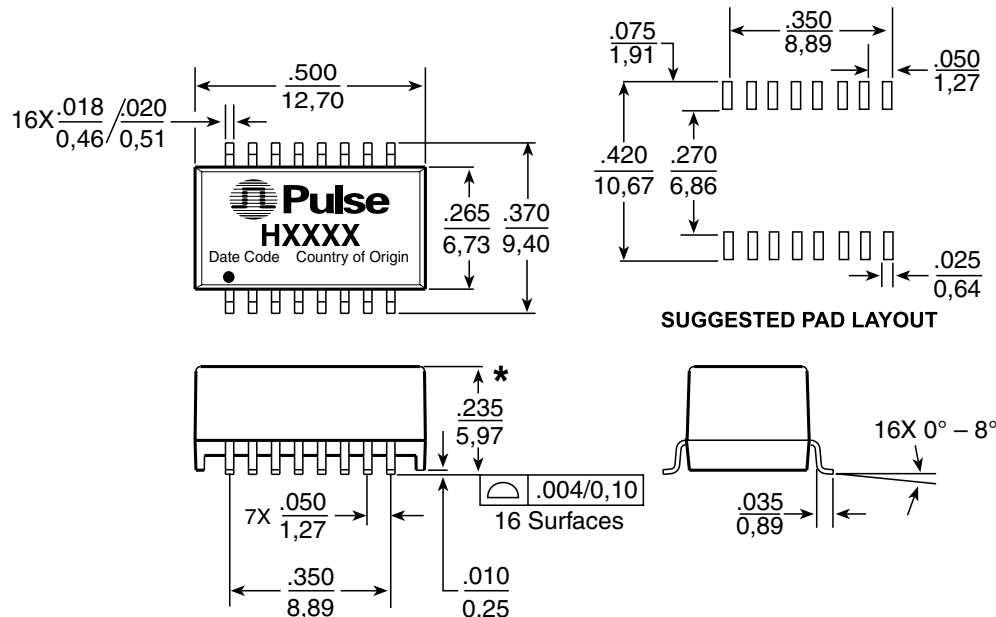
| Part Number | Turns Ratio |     | Insertion Loss<br>100 kHz–100 MHz<br>(dB MAX) | Return Loss<br>(dB TYP) |        |        | Differential to Common<br>Mode Rejection<br>(dB TYP) |        |         | Crosstalk<br>(dB TYP) |        |         | Hipot<br>(Vrms<br>MIN) |
|-------------|-------------|-----|-----------------------------------------------|-------------------------|--------|--------|------------------------------------------------------|--------|---------|-----------------------|--------|---------|------------------------|
|             | TX          | RX  |                                               | 30 MHz                  | 60 MHz | 80 MHz | 30 MHz                                               | 50 MHz | 100 MHz | 30 MHz                | 60 MHz | 100 MHz |                        |
| H1100       | 2:1         | 1:1 | -1.1                                          | -20                     | -14    | -11.5  | -42                                                  | -37    | -33     | -45                   | -40    | -35     | 1500                   |
| H1101       | 1.25:1      | 1:1 | -1.1                                          | -20                     | -14    | -11.5  | -42                                                  | -37    | -33     | -45                   | -40    | -35     | 1500                   |
| H1102       | 1:1         | 1:1 | -1.1                                          | -20                     | -14    | -11.5  | -42                                                  | -37    | -33     | -45                   | -40    | -35     | 1500                   |
| H1121       | 1:1.414     | 1:1 | -1.1                                          | -18                     | -12    | -11.5  | -42                                                  | -37    | -30     | -45                   | -40    | -35     | 1500                   |
| H1183       | 1:1         | 1:1 | -1.0                                          | -18                     | -14    | -12    | -40                                                  | -40    | -40     | -35                   | -35    | -35     | 1500                   |
| H1199       | 1:1         | 1:1 | -0.9                                          | -18                     | -12    | -11    | -40                                                  | -35    | -30     | -45                   | -45    | -37     | 1500                   |
| HX1188*     | 1:1         | 1:1 | -1.0                                          | -20                     | -14    | -12    | -42                                                  | -37    | -32     | -45                   | -40    | -35     | 1500                   |
| HX1198*     | 1:1         | 1:1 | -1.0                                          | -20                     | -14    | -12    | -42                                                  | -37    | -32     | -45                   | -40    | -35     | 1500                   |

\*Operating temperature -40°C to +85°C.

## Mechanical

### H110X, H1121, H1183,\* H1199, HX1188, HX1198

\*For part number H1183, all dimensions are the same, except the height is .220" (5,59 mm).



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

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

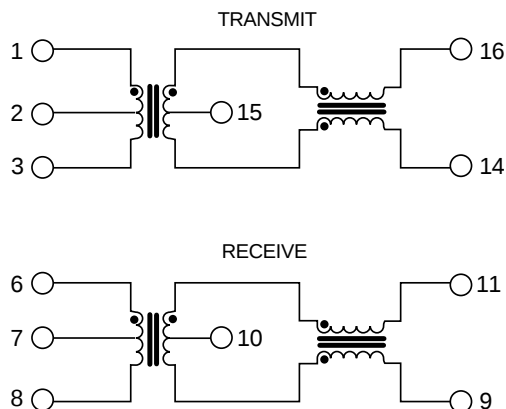
Weight . . . . . 2.8 grams  
Tube . . . . . .45/tube  
Tape & Reel . . . . .600/reel

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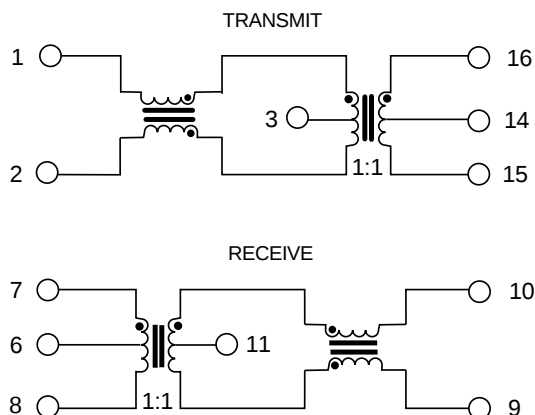


## Schematics

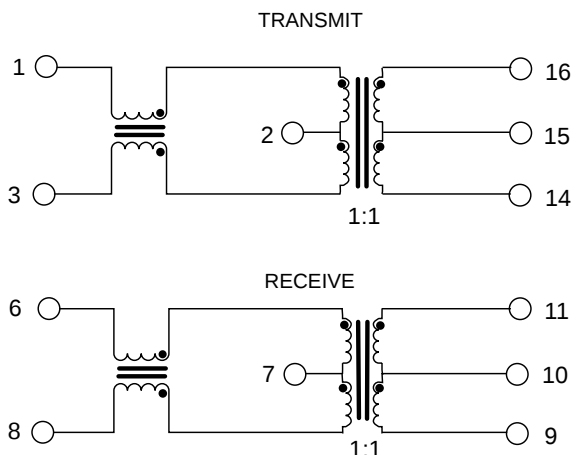
### H110X, H1121, HX1188



### H1199



### HX1198, H1183



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