10/100 Base-T Single Port Transformer Modules
With 1:1 Transmit Turns Ratios

- RoHS peak reflow temperature rating: 245°C
- Compatible with Broadcom, Intel, Microtel, National Semiconductor, ICS, and TDK Transceivers
- Meets IEEE 802.3 specification

**Electrical Specifications @ 25°C - Operating Temperature 0°C to 70°C**

<table>
<thead>
<tr>
<th>RoHS Compliant Part Number</th>
<th>Insertion Loss (dB MAX)</th>
<th>Return Loss (dB MIN @ 100 Ω)</th>
<th>Differential to Common Mode Rejection (dB MIN)</th>
<th>Crosstalk (dB TYP)</th>
<th>Hipot (Vrms MIN)</th>
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<td>0.1-100 MHz</td>
<td>1-30 MHz</td>
<td>40 MHz</td>
<td>50 MHz</td>
<td>60-80 MHz</td>
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<td>30 MHz</td>
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**Notes:**
1. HX = Operating temperature: -40° to 85°C.
2. Unless specified, operating temperature is 0° to 70°C.
3. When ordering Tape & Reel packaging, add a “T” suffix to the end of the part number, e.g. H1012NLT.
4. MSL = Moisture Sensitivity Level: a = 1, b = 2, c = 3, d = 4

**Mechanical**

- Weight: 3.0 grams
- Dimensions: Inches

**Suggested Pad Layout**

USA 858 674 8100  Germany 49 7032 7806 0  Singapore 65 6287 8998  Shanghai 86 21 62787060  China 86 755 33966678  Taiwan 886 3 4356768
10/100 Base-T Single Port Transformer Modules
With 1:1 Transmit Turns Ratios

Schematic

H1012NL, H1086NL, HX1148NL

Typical Application Circuits

H1012NL, H1086NL, HX1148NL
10/100 Base-T Single Port Transformer Modules
With 1:1 Transmit Turns Ratios

Tape & Reel Specifications

HT012NL, HT086NL, HX148NL

Weight .................. 3.0 grams
Tube .................... 20/tube
Tape & Reel ............. 300/reel

For More Information:
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