**Star Magnetics™**
Gigabit Transformer Modules with PoE* Option

*Power over Ethernet

- RoHS-5 peak reflow temperature rating 235°C
- RoHS-6 peak reflow temperature rating 245°C
- Meets IEEE 802.3 specification
- Compact footprint

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

<table>
<thead>
<tr>
<th>RoHS-5 Compliant Part Number</th>
<th>RoHS-6 Compliant Part Number</th>
<th>PoE</th>
<th>Turns Ratio</th>
<th>Number of Ports</th>
<th>Insertion Loss (dB MAX)</th>
<th>Return Loss (2 out = 100Ω ±15%)</th>
<th>Crosstalk (adjacent channels, dB MIN)</th>
<th>Hipot (Vrms MIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H5062</td>
<td>H5062NL*</td>
<td>No</td>
<td>1:1 1:1</td>
<td>1</td>
<td>-1.1 -1.0 -2.0</td>
<td>-18 -12 -12 -10</td>
<td>-43 -37 -33</td>
<td>1500</td>
</tr>
<tr>
<td>H6062</td>
<td>H6062NL*</td>
<td>Yes</td>
<td>1:1 1:1</td>
<td>1</td>
<td>-1.1 -1.0 -2.0</td>
<td>-18 -12 -12 -10</td>
<td>-43 -37 -33</td>
<td>1500</td>
</tr>
<tr>
<td>H6080</td>
<td>H6080NL*</td>
<td>Yes</td>
<td>1:1 1:1</td>
<td>2</td>
<td>-1.1 -1.0 -2.0</td>
<td>-18 -12 -12 -10</td>
<td>-43 -37 -33</td>
<td>1500</td>
</tr>
</tbody>
</table>

1. For Tape & Reel packaging add a “T” suffix to the end of the part number when ordering, e.g. H5062T
2. RoHS-5: Product does not contain 5 out of the 6 banned substances specified in the RoHS directive (product contains high-temperature solder (solder alloys containing more than 85% lead)).
3. RoHS-6: Product does not contain 6 out of the 6 banned substances specified in the RoHS directive. Some internal connections may contain lead in applications considered solder.
4. MSL=Moisture Sensitivity Level a=1 b=2 c=3 d=4 e=5

**Mechanicals**

**H5062/ML**

**Dimensions:**
- Inches: 24 SURFACES
- mm: 0.10 0.25 0.45 1.14 1.20

**H6062/ML**

**Dimensions:**
- Inches: 24 SURFACES
- mm: 0.10 0.25 0.45 1.14 1.20

**Weight:**
- 2.7 grams
- 2.63 grams

**Tape & Reel:**
- 300/reel
- 25/tube
Star Magnetics™
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Mechanicals (continued)

H6080/NL

Dimensions: Inches  mm

Unless otherwise specified, all tolerances are ± .010

Weight ........... 4.0 grams
Tape & Reel ....... 250/reel
Tube ............. .15/tube

Schematics

H5062/NL

urve for the latest revision

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