10/100BASE-T LAN MAGNETICS
Single Port Transformer Module

• Meets all IEEE 802.3 standards including 350µH with 8mA bias
• Low profile, surface mount packaging rated to 225° C peak IR reflow temperature
• Small form factor for board layout efficiency
• Operating temperature 0° to 70° C
• Minimum interwinding breakdown voltage of 1500 Vrms

ELECTRICAL SPECIFICATIONS AT 25° C

<table>
<thead>
<tr>
<th>Turns Ratio</th>
<th>Insertion Loss dB min</th>
<th>Return Loss</th>
<th>Common to Differential Mode Rejection dB min</th>
<th>Common to Common Mode Rejection dB min</th>
<th>Crosstalk</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX</td>
<td>RX</td>
<td>100kHz to 100MHz</td>
<td>100kHz to 30MHz</td>
<td>30MHz to 60MHz</td>
<td>60MHz to 80MHz</td>
</tr>
<tr>
<td>1CT : 1CT</td>
<td>1CT : 1CT</td>
<td>-1.0</td>
<td>-16</td>
<td>16 - 20 log (1/30MHz)</td>
<td>-10</td>
</tr>
</tbody>
</table>

SCHEMATIC
MECHANICAL

S558-5999-J1-F

SUGGESTED PCB PAD LAYOUT

NOTES:
1. STANDARD MARKING REFER TO DOC. HAND-WDRK-04.
2. PACKAGE CODE: "QBS001".