**Maximum Ratings**

Operating Temperature: -40°C to 85°C

Storage Temperature: -65°C to 150°C

Power Input (as a splitter): 1.9W max.

Internal Dissipation: 0.75W max.

Permanent damage may occur if any of these limits are exceeded.

**Pad Connections**

SUM PORT: 2
PORT 1: 7
PORT 2: 9
GROUND: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, paddle

**Features**

- very wide bandwidth, 500 to 2500 MHz
- excellent isolation, 20 dB typ.
- excellent amplitude unbalance, 0.02 dB typ.
- excellent phase unbalance, 0.9 deg. typ.
- small size, 0.118”x0.118” x 0.035”
- high ESD level
- aqueous washable

**Applications**

- cellular
- GPS
- radar
- WCDMA
- GSM
- Korea PCS

**Electrical Specifications**

<table>
<thead>
<tr>
<th>FREQ. RANGE (MHz)</th>
<th>ISOLATION (dB)</th>
<th>INSERTION LOSS* (dB) ABOVE 3.0 dB</th>
<th>PHASE UNBALANCE (Degrees)</th>
<th>AMPLITUDE UNBALANCE (dB)</th>
<th>VSWR (1) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-2500</td>
<td>20</td>
<td>0.9</td>
<td>1.8</td>
<td>5.0</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>1.3</td>
<td>1.2</td>
<td>1.3</td>
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</tbody>
</table>

* De-embedded from demo board loss.

**Typical Performance Data**

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Total Loss 1 (dB)</th>
<th>Amplitude Unbalance</th>
<th>Isolation (dB)</th>
<th>Phase Unbalance (deg)</th>
<th>VSWR S</th>
<th>VSWR 1</th>
<th>VSWR 2</th>
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</thead>
<tbody>
<tr>
<td>500.00</td>
<td>3.68</td>
<td>0.01</td>
<td>11.86</td>
<td>0.42</td>
<td>1.52</td>
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<tr>
<td>690.00</td>
<td>3.63</td>
<td>0.01</td>
<td>17.62</td>
<td>0.47</td>
<td>1.31</td>
<td>1.21</td>
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<td>800.00</td>
<td>3.60</td>
<td>0.00</td>
<td>29.08</td>
<td>0.52</td>
<td>1.12</td>
<td>1.14</td>
<td>1.12</td>
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<tr>
<td>1070.00</td>
<td>3.64</td>
<td>0.01</td>
<td>26.49</td>
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<td>1.10</td>
<td>1.09</td>
<td>1.07</td>
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<td>20.24</td>
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<td>21.14</td>
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<td>1.32</td>
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</table>

1. Total Loss = Insertion Loss + 3dB splitter loss.

**ESD Rating**

Human Body Model (HBM): Class 1A (250 to < 500V) in accordance with ANSI/ESD STM 5.1 - 2001

Machine Model (MM): Class M2 (100V to < 250V) in accordance with ANSI/ESD STM 5.2 - 1999

**Notes**

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

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