90° HYBRID
SURFACE MOUNT MODEL: SLQ-KA2

OPTIMIZED BANDWIDTH
60 - 120 MHz

FEATURES:
► Excellent Performance
► Small Size, Surface Mount
► Building Block For:
  - Power Amplifiers
  - Image Rejection Mixers
  - I & Q / SSB Modulators
  - Phase Shifters & More...

SPECIFICATIONS (Rev. D 09/18/18)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>60 - 120 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (dB) *</td>
<td>Typ. 0.25</td>
</tr>
<tr>
<td>Amplitude Unbalance (dB)</td>
<td>Typ. 0.5</td>
</tr>
<tr>
<td>Phase Unbalance (Deg.)</td>
<td>Typ. 1.0º</td>
</tr>
<tr>
<td>Isolation (dB)</td>
<td>Typ. 23</td>
</tr>
<tr>
<td>Power Rating</td>
<td>1 Watt (Max.)</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms (Nom.)</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.25:1 (Typ.)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40 to +85 ºC</td>
</tr>
</tbody>
</table>

* Insertion loss is the average loss of the 2 coupling values in excess of the theoretical 3 dB coupling.

<table>
<thead>
<tr>
<th>Package #</th>
<th>159LF</th>
</tr>
</thead>
</table>

Port Configuration

<table>
<thead>
<tr>
<th>Input</th>
<th>Isolated*</th>
<th>+90º Output</th>
<th>0º Output</th>
<th>GND,**</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5*</td>
<td>1</td>
<td>2</td>
<td>3,4</td>
</tr>
</tbody>
</table>

* Terminate ISOLATED port in 50 Ohms EXTERNALLY.
** Ground EXTERNALLY
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Data @ 25°C

PERFORMANCE PLOTS

Graphs showing isolation and coupling/insertion loss parameters at various frequencies.
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Phase Unbalance (deg.)

Frequency (MHz)

Return Loss (dB)

Frequency (MHz)

S11 S22 S33 S44
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