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

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Type</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>5.5 - 16.5 MHz</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (dB) *</td>
<td>0.3</td>
<td>0.5</td>
</tr>
<tr>
<td>Amplitude Unbalance</td>
<td>0.9</td>
<td>1.2</td>
</tr>
<tr>
<td>Phase Unbalance</td>
<td>1°</td>
<td>3°</td>
</tr>
<tr>
<td>Isolation (dB)</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>Input Power</td>
<td>1 Watt (Max.)</td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms (Nom.)</td>
<td></td>
</tr>
<tr>
<td>VSWR</td>
<td>1.10:1 (Typ.)</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40 to +85 °C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-55 to +100 °C</td>
<td></td>
</tr>
</tbody>
</table>

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

### Port Configuration

<table>
<thead>
<tr>
<th>Port</th>
<th>Isolated*</th>
<th>+90° Output</th>
<th>0° Output</th>
<th>GND.**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>6</td>
<td>5</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Terminate ISOLATED port in 50 Ohms EXTERNALLY.
** Ground Externally
90° HYBRID
SURFACE MOUNT MODEL: SLQ-301
3:1 BANDWIDTH
5.5 - 16.5 MHz

Data @ 25ºC

PERFORMANCE PLOTS

Insertion Loss (dB)

Frequency (MHz)

Phase Unbalance (deg.)

Frequency (MHz)
90° HYBRID
SURFACE MOUNT MODEL: SLQ-301

3:1 BANDWIDTH
5.5 - 16.5 MHz

Data @ 25°C

PERFORMANCE PLOTS

Isolation (dB)

Frequency (MHz)

Return Loss (dB)

Frequency (MHz)

S41
S44
S33 (90 deg)
S22 (0 deg)
S11
90° HYBRID
SURFACE MOUNT MODEL: SLQ-301

3:1 BANDWIDTH
5.5 - 16.5 MHz

Data @ 25°C

PERFORMANCE PLOTS

Frequency (MHz)

Group Delay (nSec)