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

### SPECIFICATIONS (Rev. F 09/18/18)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>225 - 400 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (dB)</td>
<td>Typ. 0.4, Max. 0.8</td>
</tr>
<tr>
<td>Amplitude Unbalance</td>
<td>Typ. 0.6, Max. 1.2</td>
</tr>
<tr>
<td>Phase Unbalance</td>
<td>Typ. 1°, Max. 4°</td>
</tr>
<tr>
<td>Isolation (dB)</td>
<td>Typ. 18, Min. 15</td>
</tr>
<tr>
<td>Input Power</td>
<td>1 Watt (Max.)</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms (Nom.)</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.40:1 (Typ.)</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-40 to +85 °C</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-55 to +100 °C</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>Input</th>
<th>Isolated*</th>
<th>+90° Output</th>
<th>0° 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
90° HYBRID
SURFACE MOUNT MODEL: SLQ-K07
FREQUENCY BANDWIDTH
225 - 400 MHz

Data @ 25ºC

PERFORMANCE PLOTS

Frequency (MHz)

Insertion Loss (dB)

S11, S21

Isolation (dB)

S41

Frequency (MHz)
90° HYBRID
SURFACE MOUNT MODEL: SLQ-K07

FREQUENCY BANDWIDTH 225 - 400 MHz

Data @ 25°C

Performance Plots

Phase Unbalance (deg.)

Return Loss (dB)

Frequency (MHz)
90° HYBRID
SURFACE MOUNT MODEL: SLQ-K07
FREQUENCY BANDWIDTH 225 - 400 MHz

PERFORMANCE PLOTS

Data @ 25°C

Group Delay (nSec)

Frequency (MHz)