90° HYBRID
SURFACE MOUNT MODEL: SLQ-67

10% BANDWIDTH

Fc = 450 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>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>450 MHz ±5%</td>
</tr>
<tr>
<td>Insertion Loss (dB) *</td>
<td>Typ. 0.3 / Max. 0.4</td>
</tr>
<tr>
<td>Amplitude Unbalance</td>
<td>Typ. 0.5 / Max. 0.8</td>
</tr>
<tr>
<td>Phase Unbalance (Deg.)</td>
<td>Typ. 2.0 / Max. 3</td>
</tr>
<tr>
<td>Isolation (dB)</td>
<td>Typ. 20 / Min. 17</td>
</tr>
<tr>
<td>Power Rating</td>
<td>1 Watt (Max.)</td>
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<tr>
<td>Impedance</td>
<td>50 Ohms (Nom.)</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.35:1 (Typ.)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40 to +85 °C</td>
</tr>
<tr>
<td>Storage Temperature Range</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.

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

PERFORMANCE PLOTS

Frequency (MHz)

Coupling/Insertion Loss/Amp. Unbal. (dB)

S21  S31

Frequency (MHz)

Isolation (dB)

S41
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PERFORMANCE PLOTS
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PERFORMANCE PLOTS

Frequency (MHz)

Group Delay (nSec)