4 PORT 0º/180º HYBRID SURFACE MOUNT MODEL: DJS-345

FREQUENCY
30 - 450 MHz

FEATURES:
- Ultra-Wide Bandwidth (15:1)
- High Power Handling
- Closely Controlled Phase/Amplitude Unbalance
- Lead Free Rel-Pro® Technology
- Small Size, Surface Mount

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>30 - 450 MHz</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (dB) *</td>
<td>0.75</td>
<td>1.2</td>
</tr>
<tr>
<td>Amplitude Unbalance (dB)</td>
<td>0.3</td>
<td>0.8</td>
</tr>
<tr>
<td>Phase Unbalance (Deg.)</td>
<td>± 2.5º</td>
<td>± 4º</td>
</tr>
<tr>
<td>Isolation (dB)</td>
<td>23</td>
<td>18</td>
</tr>
<tr>
<td>Input Power Rating</td>
<td>5 Watts (Nom.)</td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms (Nom.)</td>
<td></td>
</tr>
<tr>
<td>VSWR</td>
<td>1.22:1 (Typ.)</td>
<td>1.25:1 (Typ.)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-30 to +70 ºC</td>
<td></td>
</tr>
</tbody>
</table>

* Above theoretical split loss of 3 dB.

PORT IDENTIFICATION

<table>
<thead>
<tr>
<th>PORT</th>
<th>0º Output</th>
<th>180º Output</th>
<th>GND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sum</td>
<td>8</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Delta</td>
<td>1</td>
<td>All Others</td>
<td></td>
</tr>
</tbody>
</table>

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E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com
4 PORT 0°/180° HYBRID SURFACE MOUNT MODEL: DJS-345

FREQUENCY 30 - 450 MHz

PERFORMANCE PLOTS

Top graph:
- Frequency range: 30 - 450 MHz
- Y-axis: Transmission Loss/Amp., Unbalance (dB)
- Curves labeled: Sum -1, Sum -2, Delta -1, Delta -2

Bottom graph:
- Frequency range: 30 - 450 MHz
- Y-axis: Isolation (dB)
- Curves labeled: Out 1 to Out 2, Sum - Delta
4 PORT 0°/180° HYBRID
SURFACE MOUNT MODEL: DJS-345

FREQUENCY
30 - 450 MHz

PERFORMANCE PLOTS

Phase Unbalance (degrees)

Frequency (MHz)

Delta Input

Phase Unbalance (degrees)

Frequency (MHz)

Sum Input
4 PORT 0°/180° HYBRID
SURFACE MOUNT MODEL: DJS-345

FREQUENCY

30 - 450 MHz

PERFORMANCE PLOTS

- Return Loss (dB)
- Group Delay (nSec)

Frequency (MHz)