PIN DIODE TRANSFER SWITCHES

0.5 - 18 GHz

FEATURES

• Low Insertion Loss
• Multi Octave Band
• Integral Driver
• Single TTL Control Input

APPLICATIONS

• Communications Systems
• EW Systems
• Test Equipment
• Electronic Simulators
• Modulators

ENVIRONMENTAL RATINGS

Max Input Power…………………………1 W Average
Operating Temperature Range…………-55°C to +95°C
Storage Temperature Range…………...-65°C to +120°C

Specifications: (@ +25°C, 0 dBm)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY RANGE (GHz)</th>
<th>MAXIMUM INSERTION LOSS (dB)</th>
<th>MINIMUM ISOLATION (dB)</th>
<th>MAXIMUM VSWR</th>
<th>TYPICAL SWITCHING SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD0520A</td>
<td>0.5 – 2.0</td>
<td>1.3</td>
<td>50</td>
<td>1.5:1</td>
<td>1 μsec (50% of TTL to 90% of RF)</td>
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<tr>
<td>STD2080A</td>
<td>2.0 – 8.0</td>
<td>1.5</td>
<td>45</td>
<td>1.8:1</td>
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<tr>
<td>STD8018A</td>
<td>8.0 – 18</td>
<td>2.5</td>
<td>35</td>
<td>2:1</td>
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<tr>
<td>STD2018A</td>
<td>2.0 – 18</td>
<td>2.5</td>
<td>35</td>
<td>2:1</td>
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<tr>
<td>STD0518A</td>
<td>0.5 – 18</td>
<td>2.7</td>
<td>35</td>
<td>2:1</td>
<td></td>
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</tbody>
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NOTES:

1. DRIVER POWER SUPPLY
   +5V ± 0.2V DC, 100 mA NOMINAL
   -15V ± 0.5V DC, 50 mA NOMINAL

2. MODEL CONTROL