### Specifications

<table>
<thead>
<tr>
<th>Frequency</th>
<th>VSWR (max.)</th>
<th>Insertion Loss (dB max.)</th>
<th>Isolation (dB min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-1 GHz</td>
<td>1.15</td>
<td>0.15</td>
<td>60</td>
</tr>
<tr>
<td>1-3 GHz</td>
<td>1.35</td>
<td>0.35</td>
<td>60</td>
</tr>
<tr>
<td>3-6.5 GHz</td>
<td>1.50</td>
<td>0.50</td>
<td>60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency</th>
<th>VSWR (max.)</th>
<th>Insertion Loss (dB max.)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1-3 GHz</td>
<td>1.15</td>
<td>0.15</td>
<td>60</td>
</tr>
<tr>
<td>3-6.5 GHz</td>
<td>1.35</td>
<td>0.35</td>
<td>60</td>
</tr>
</tbody>
</table>

Actuator Current (typical):

- **12Vdc**: 240mA
- **12-15 Vdc**: 240mA
- **20-24 Vdc**: 200mA
- **24-30Vdc**: 190mA

*If reduced coil current is required, please contact Factory.*

### D5 Series

The **D5 Series** features SC connectors and a frequency range of DC to 6.5 GHz.

This series is available with fail-safe, latching self-cut-off or pulse latching functions.

**RF Impedance:** 50 ohms nominal  
**Temperature Range:** -35°C to +85°C ambient  
**Operating Life:** 1,000,000 cycles min.  
**Switching Time:** 15 mSec max.  
**Switching Sequence:** Break Before Make  
**Environmental:** Designed in Accordance to MIL-DTL-3928 (Testing and Operation Modes)

### Available Options

<table>
<thead>
<tr>
<th>Option 2 RF Connectors</th>
<th>Option 4 Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - SC</td>
<td>1 - 6 Vdc +/- 10%</td>
</tr>
<tr>
<td></td>
<td>2 - 12 Vdc +/- 10%</td>
</tr>
<tr>
<td></td>
<td>3 - 24-30 Vdc</td>
</tr>
<tr>
<td></td>
<td>4 - 48 Vdc +/- 10%</td>
</tr>
<tr>
<td></td>
<td>5 - 110 Vac +/- 10%</td>
</tr>
<tr>
<td>1 - Solder Terminals</td>
<td>6 - 12-15 Vdc</td>
</tr>
<tr>
<td>2 - Circular Connector</td>
<td>7 - 18-20 Vdc</td>
</tr>
<tr>
<td>4 - Sub Miniature D-Shell Connector</td>
<td>8 - 20-24 Vdc</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option 5 Actuator</th>
<th>Option 6 Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fail-safe</td>
<td>2 - DC to 6.5 GHz</td>
</tr>
<tr>
<td></td>
<td>2 - 12-15 Vdc</td>
</tr>
<tr>
<td></td>
<td>2 - 20-24 Vdc</td>
</tr>
<tr>
<td></td>
<td>2 - 24-30 Vdc</td>
</tr>
<tr>
<td></td>
<td>2 - 24-30 Vdc</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option 7 Polarity</th>
<th>Option 8 Special Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - Not Applicable</td>
<td>L - TTL (High)</td>
</tr>
<tr>
<td>8 - Positive Common</td>
<td>LL - TTL (Low)</td>
</tr>
<tr>
<td>9 - Negative Common</td>
<td>P - High Power Handling</td>
</tr>
</tbody>
</table>

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## D5 Series
### SPDT Switch
#### High Power
DC-6.5 GHz ♦ SC

<table>
<thead>
<tr>
<th>PIN</th>
<th>A, M w/ TTL</th>
<th>B, Q w/ TTL</th>
<th>C w/ TTL</th>
<th>D w/ TTL</th>
<th>E w/ TTL</th>
<th>F w/ TTL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+1</td>
<td>+A</td>
<td>COM</td>
<td>COM</td>
<td>+A</td>
<td>COM</td>
</tr>
<tr>
<td>2</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>-B</td>
<td>N/A</td>
<td>COM</td>
</tr>
<tr>
<td>3</td>
<td>N/A</td>
<td>N/A</td>
<td>2</td>
<td>2</td>
<td>N/A</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>-2</td>
<td>1</td>
<td>+1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>-B</td>
</tr>
<tr>
<td>6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>7</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2</td>
</tr>
</tbody>
</table>

### SCHEMATICS
Pages 139-143

### OUTLINE DRAWING DIMENSION "A"

| 1.75" | 1.75" | 1.75" | 1.75" | 1.75" | 1.98" | 1.98" | 1.98" | 1.98" |

### SIDE VIEW

![Side View Diagram]

### FRONT VIEW

![Front View Diagram]

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