The **S Series** features SC connectors and a frequency range of DC to 6.5 GHz and is designed for high power applications. This series is available with latching self-cut-off or normally open 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)

### S SERIES  
**1P7T to 1P8T**  
**MULTI POSITION SWITCH**  
**DC- 6.5 GHz ◆ SC**

**SPECIFICATIONS**

<table>
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<tr>
<th>Frequency</th>
<th>VSWR (max.)</th>
<th>Insertion Loss (dB max.)</th>
<th>Isolation (dB min.)</th>
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<tbody>
<tr>
<td>DC-1 GHz</td>
<td>1.15</td>
<td>0.15</td>
<td>80</td>
</tr>
<tr>
<td>1-3 GHz</td>
<td>1.35</td>
<td>0.35</td>
<td>70</td>
</tr>
<tr>
<td>3-6.5 GHz</td>
<td>1.50</td>
<td>0.50</td>
<td>60</td>
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<tr>
<td>DC-1 GHz</td>
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<tr>
<td>3-6.5 GHz</td>
<td>1.50</td>
<td>0.50</td>
<td>60</td>
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**Actuator Current**  
- **Typically:**  
  - Normally Open: 240mA  
  - Latching: 280mA

**AVAILABLE OPTIONS**

**OPTION 2 RF CONNECTORS**  
- **SC**

**OPTION 3 TERMINALS**  
- **Solder Terminals**
- **Circular Connector**
- **Sub Miniature D-Shell Connector**
- **USB**

**OPTION 4 VOLTAGE**  
- **6 Vdc +/- 10%**
- **12 Vdc +/- 10% (USB Optional)**
- **24-30 Vdc**
- **48 Vdc +/- 10% (USB Optional)**
- **110 Vdc +/- 10% (USB Optional)**
- **12-15 Vdc**
- **18-20 Vdc**
- **20-24 Vdc**

**OPTION 5 ACTUATOR**  
- **Latching Self Cut-Off**
- **Diodes (USB Optional)**
- **Diodes, Indicators (USB Optional)**
- **Normally Open**
- **Diodes, Indicators (USB Optional)**
- **Diodes (USB Optional)**
- **Standard**
- **Failsafe to Position 1 - Standard**
- **Failsafe to Position 1 - Diodes**
- **Failsafe to Position 1 - Diodes, Indicators**

**OPTION 6 FREQUENCY**  
- **DC to 6.5 GHz**

**OPTION 7 POLARITY**  
- **Not Applicable, USB**
- **Positive Common**
- **Negative Common**

**OPTION 8 SPECIAL OPTIONS**  
- **TTL (High)**
- **TTL (Low)**
- **Bracket**
- **Flange**
- **Reset (Latching Only)**
- **BCD**
- **USB**

Please Note: USB integration can only be applied to Voltage Options 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3.

The switch has a mini-USB socket on the enclosure interface which provides communication between switch and computers. Additionally, the enclosure also has a Molex socket for 12Vdc connection, which is required to power RF switch. The switch is accompanied with a CD driver, a 3 ft. USB cable and a 12 Vdc AC/DC adapter.
### DC TERMINAL FUNCTION

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</table>

**NOTE #1:** RESET IF (R) OPTION IS SELECTED, OTHERWISE N/A

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### SCHEMATICS

Pages 139-143

### OUTLINE DRAWING DIMENSION "A"

2.70"  2.70"  2.70"  2.70"  2.30"  2.30"  2.47"  2.30"  2.30"  2.47"  2.30"  2.47"  2.30"  2.47"

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### DC TERMINAL VIEW

**BOTTOM VIEW**

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**FRONT VIEW**

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