Available with either CMOS Binary logic decoding circuits or MOSFET pulse latching electronics, these DowKey INTELLIGENT RELAY Multithrow Switches were designed to simplify the physical construction and reduce the amount of supporting (logic and switch driver) electronics required to implement complex switch assemblies. These SP7T and SP10T DowKey INTELLIGENT RELAY IN-LINE Multithrow Switches are ideal for complex switch matrix or test equipment applications.

Typical applications for the 473-4A3 Series include:
- Test Equipment Band Selection
- Switch Matrixes

### RF Characteristics

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>VSWR (max)</th>
<th>Isolation dB (min)</th>
<th>Ins. Loss dB (max)</th>
<th>RF Power Watts (CW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2</td>
<td>1.50</td>
<td>80</td>
<td>0.20</td>
<td>0.30</td>
</tr>
<tr>
<td>2-8</td>
<td>1.50</td>
<td>70</td>
<td>0.40</td>
<td>0.50</td>
</tr>
<tr>
<td>8-12</td>
<td>1.50</td>
<td>65</td>
<td>0.50</td>
<td>0.70</td>
</tr>
<tr>
<td>12-18</td>
<td>2.00</td>
<td>60</td>
<td>1.00</td>
<td>1.50</td>
</tr>
</tbody>
</table>

Power handling capability is for through path only. Optional internal termination is limited to 500 milliwatts dissipation.

### Connectors and Part Numbers

<table>
<thead>
<tr>
<th>Terminations</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>50Ω</td>
</tr>
</tbody>
</table>

**SP7T Switches**
- 473-320802C 473-320803C: 12 Vdc Coil, MOSFET Drivers, Pulse Latching
- 473-330802C 473-330803C: 28 Vdc Coil, MOSFET Drivers, Pulse Latching
- 473-420802E 473-420803E: 12 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff
- 473-430802E 473-430803E: 28 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff

**SP8T Switches**
- 483-320802C 483-320803C: 12 Vdc Coil, MOSFET Drivers, Pulse Latching
- 483-330802C 483-330803C: 28 Vdc Coil, MOSFET Drivers, Pulse Latching
- 483-420802E 483-420803E: 12 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff
- 483-430802E 483-430803E: 28 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff

**SP9T Switches**
- 493-320802C 493-320803C: 12 Vdc Coil, MOSFET Drivers, Pulse Latching
- 493-330802C 493-330803C: 28 Vdc Coil, MOSFET Drivers, Pulse Latching
- 493-420802E 493-420803E: 12 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff
- 493-430802E 493-430803E: 28 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff

**SP4T Switches**
- 4A3-320802C 4A3-320803C: 12 Vdc Coil, MOSFET Drivers, Pulse Latching
- 4A3-330802C 4A3-330803C: 28 Vdc Coil, MOSFET Drivers, Pulse Latching
- 4A3-420802E 4A3-420803E: 12 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff
- 4A3-430802E 4A3-430803E: 28 Vdc Coil, Binary Decoding, with ENABLE, Latching, Self-Cutoff

### Specifications:

- **Operating Voltage:**
  - (across temperature range)
  - 15 Vdc (14-17 Vdc)
  - 28 Vdc (24-32 Vdc)
- **Coil Current (Nominal):**
  - 15 Vdc: 187 mA
  - 28 Vdc: 177 mA
- **Switching Time:**
  - 15 ms maximum
- **Operating Temperature:**
  - 0ºC to +65ºC
- **Mechanical Life, Cycles:**
  - 1 x 10⁶ minimum
- **RF Connectors:**
  - SMA-Female Only