The **WN Series** features SMA connectors and a frequency range of DC to 22 GHz.

This series is available with normally open functions only.

**RF Impedance:** 50 ohms nominal  
**Temperature Range:** -35°C to +85°C ambient  
**Operating Life:** 2,000,000 cycles min.  
**Switching Time:** 15 mSec max.  
**Switching Sequence:** Break Before Make  
**Environmental:** Designed in Accordance to MIL-DTL-3928 (Testing and Operation Modes)

### 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-3 GHz</td>
<td>1.15</td>
<td>0.15</td>
<td>80</td>
</tr>
<tr>
<td>3-8 GHz</td>
<td>1.25</td>
<td>0.25</td>
<td>70</td>
</tr>
<tr>
<td>8-12.4 GHz</td>
<td>1.30</td>
<td>0.30</td>
<td>60</td>
</tr>
<tr>
<td>12.4-18 GHz</td>
<td>1.40</td>
<td>0.40</td>
<td>60</td>
</tr>
<tr>
<td>18-22 GHz</td>
<td>1.60</td>
<td>0.60</td>
<td>55</td>
</tr>
</tbody>
</table>

### Actuator Current (typical)

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>12Vdc</th>
<th>12-15 Vdc</th>
<th>20-24 Vdc</th>
<th>24-36Vdc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normally Open</td>
<td>160mA</td>
<td>200mA</td>
<td>320mA</td>
<td>400mA</td>
</tr>
</tbody>
</table>

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

### Available Options

#### Option 2 RF Connectors

- SMA

#### Option 3 Terminals

1. Solder 
2. Circular Connector 
3. Other (Specify) / Moes for USB Option 
4. Sub Miniature D-Shell Connector

#### Option 4 Voltage

1. 6 Vdc +/- 10% 
2. 12 Vdc +/- 10% 
3. 24-30 Vdc 
4. 48 Vdc +/- 10% 
5. 110 Vac +/- 10% 
6. 12-15 Vdc 
7. 18-20 Vdc 
8. 20-24 Vdc

#### Option 5 Actuator

- Latching Self Cut-Off 
- Diodes 
- Diodes, Indicators 

#### Option 6 Frequency

- DC - 10 GHz

#### Option 7 Polarity

- Normally Open 
- Diodes, Indicators 
- Diodes 
- Standard 

#### Option 8 Special Options

- L - TTL (High) 
- LL - TTL (Low) 
- 1 - Bracket 
- R - Reset (Latching Only) 
- C - BCD 
- U - USB

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High quality microwave and millimeter wave components and subsystems. Visit Ducommun RF Products online at www.ducommun.com or contact us at 310.513.7200. All specifications are subject to change without notice.
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