

## Coaxial Two Way Switch (DPDT) || BN 754645

**Radio frequency characteristics**

Interface type (4 connections)	N-f (50 Ω)			
Characteristic impedance	50 Ω			
Frequency range	0 to 1 GHz	1 to 2 GHz	2 to 3 GHz	3 to 5 GHz
VSWR, max.	1.03	1.13	1.13	1.22
Isolation, min.	75 dB	60 dB	60 dB	50 dB
Insertion loss, max.	0.04 dB	0.04 dB	0.06 dB	0.06 dB
Average power capability *	790 W	560 W	450 W	350 W
Peak voltage capability *	3.0 kV			

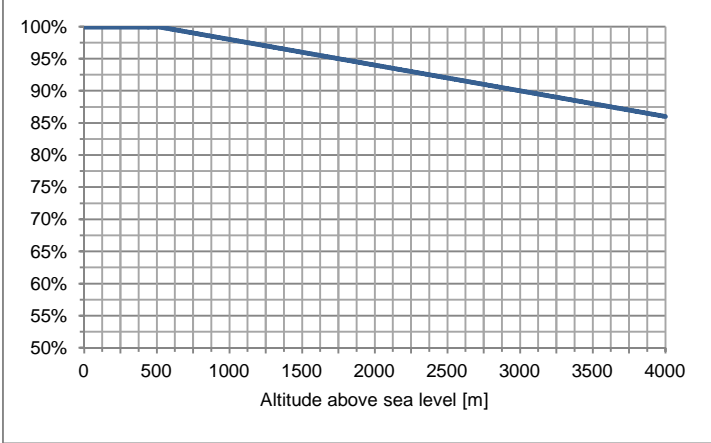
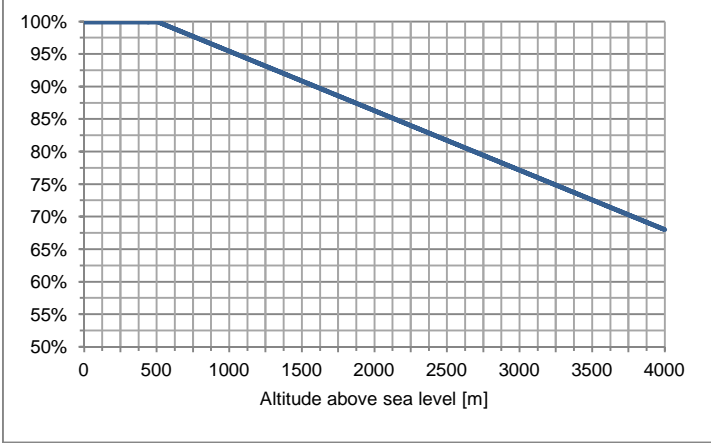
**Mechanical data**

Switch type	Two way switch, DPDT
Actuator type	Manual operation
Life, min.	500,000 operations
Weight, approx.	0.35 kg

**Environmental conditions**

<b>Operational conditions</b>	ETSI EN 300 019-1-3 V2.3.2 (2009-1) class 3.1 N
Ambient temperature **	-10 to +45°C
Condensation	Not allowed
Relative humidity, max.	95%

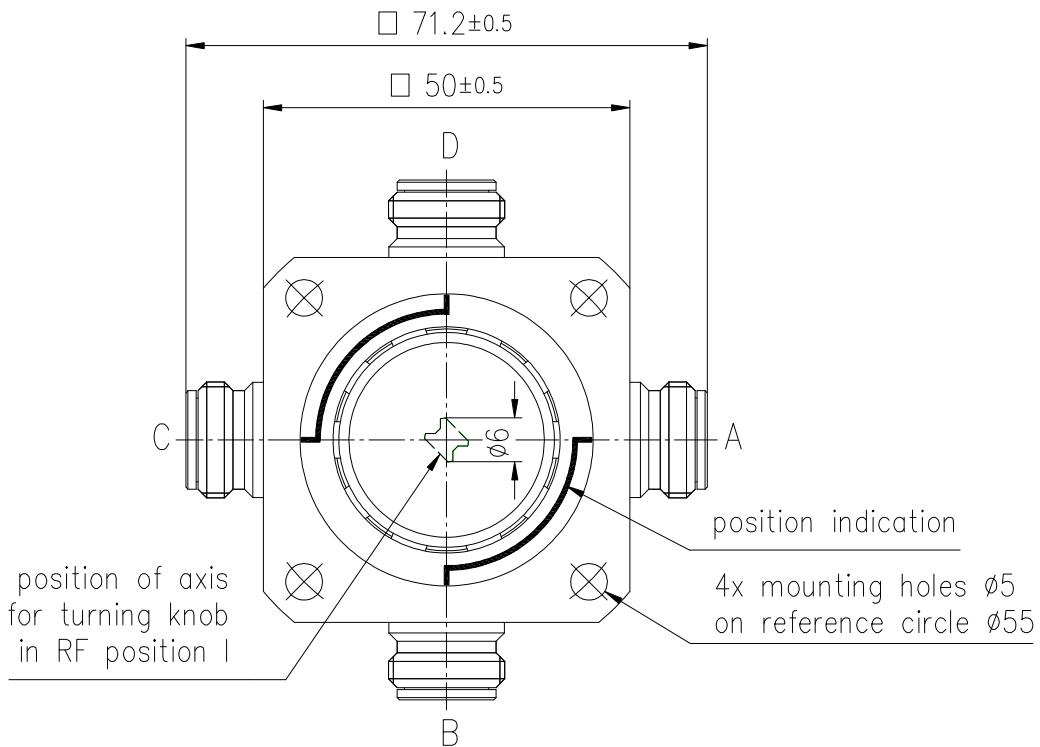
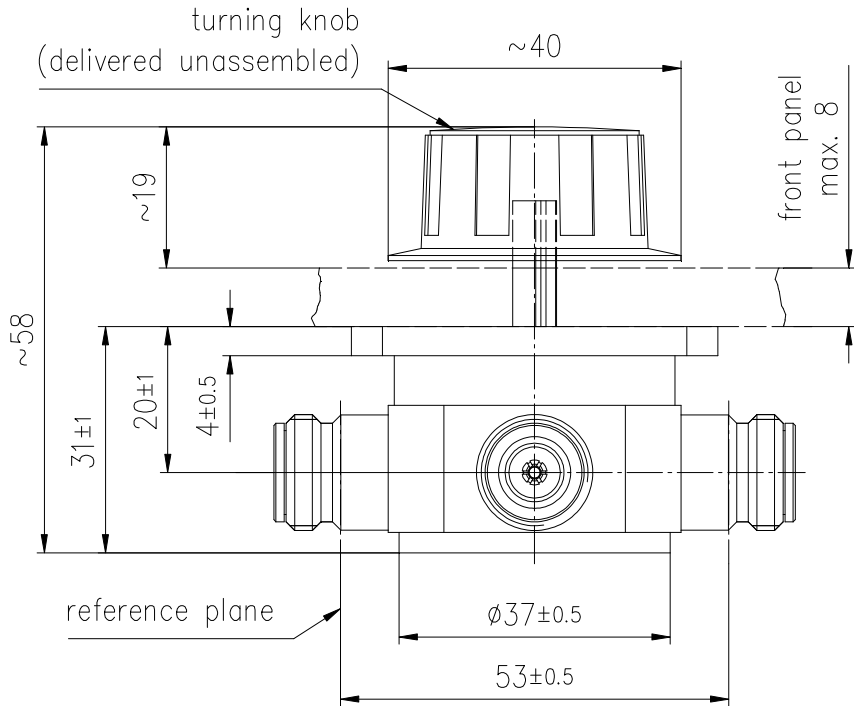
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<p>Derating of input power with increasing altitude</p>	<p>The maximum input power can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the maximum input power must be reduced as shown in the diagram.</p>  <table border="1"> <caption>Derating of input power with increasing altitude</caption> <thead> <tr> <th>Altitude above sea level [m]</th> <th>Power (%)</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>500</td><td>100</td></tr> <tr><td>1000</td><td>97.5</td></tr> <tr><td>1500</td><td>95</td></tr> <tr><td>2000</td><td>92.5</td></tr> <tr><td>2500</td><td>90</td></tr> <tr><td>3000</td><td>87.5</td></tr> <tr><td>3500</td><td>85</td></tr> <tr><td>4000</td><td>82.5</td></tr> </tbody> </table>	Altitude above sea level [m]	Power (%)	0	100	500	100	1000	97.5	1500	95	2000	92.5	2500	90	3000	87.5	3500	85	4000	82.5
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<p>Derating of voltage with increasing altitude</p>	<p>The maximum voltage can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the maximum input power must be reduced as shown in the diagram.</p>  <table border="1"> <caption>Derating of voltage with increasing altitude</caption> <thead> <tr> <th>Altitude above sea level [m]</th> <th>Voltage (%)</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>500</td><td>100</td></tr> <tr><td>1000</td><td>92.5</td></tr> <tr><td>1500</td><td>85</td></tr> <tr><td>2000</td><td>77.5</td></tr> <tr><td>2500</td><td>70</td></tr> <tr><td>3000</td><td>62.5</td></tr> <tr><td>3500</td><td>55</td></tr> <tr><td>4000</td><td>47.5</td></tr> </tbody> </table>	Altitude above sea level [m]	Voltage (%)	0	100	500	100	1000	92.5	1500	85	2000	77.5	2500	70	3000	62.5	3500	55	4000	47.5
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<p>IP protection level</p>	<p>IP40 according to IEC EN 60529 (all interfaces connected with appropriate gaskets)</p>																				
<p>Installation position</p>	<p>Optional</p>																				
<p><b>Transport conditions</b></p>	<p>ETSI EN 300 019-1-2 V2.1.4 (2003-04) class 2.2</p>																				
<p>Ambient temperature</p>	<p>-25 to +70°C</p>																				
<p>Rain, condensation, icing</p>	<p>Not allowed</p>																				
<p><b>Storage conditions</b></p>	<p>ETSI EN 300 019-1-1 V2.1.4 (2003-04) class 1.2</p>																				
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\* *Standard conditions:*  
*Dielectric: Dry air under standard pressure at sea level (p = 1013 hPa)*  
*Load VSWR, max. 1.0 (no standing wave)*  
*No modulation, sinusoidal carrier only*  
 \*\* *Extended temperature range on request*

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Outline (all dimensions in millimeters)



RF connection

RF position I: A-B, C-D

RF position II: A-D, B-C

switch shown in RF position I