

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



Typical illustration

### Radio frequency characteristics

Interface type (4 connections)	N (50 Ω, female) per IEC 61169-16				
	0 to 1 MHz	1 to 3 MHz	3 to 10 MHz	10 to 30 MHz	30 to 60 MHz
Frequency range	0 to 1 MHz	1 to 3 MHz	3 to 10 MHz	10 to 30 MHz	30 to 60 MHz
VSWR, max.	1.03	1.03	1.03	1.03	1.03
Isolation, min.	75 dB	75 dB	75 dB	75 dB	75 dB
Insertion loss, max.	0.04 dB	0.04 dB	0.04 dB	0.04 dB	0.04 dB
Average power capability <sup>RFC1)</sup> at ambient temperature -10 to +45°C	14000 W	8800 W	5600 W	3900 W	3000 W
Frequency range	60 to 100 MHz	0.1 to 1 GHz	1 to 2 GHz	2 to 3 GHz	3 to 5 GHz
VSWR, max.	1.03	1.03	1.13	1.13	1.22
Isolation, min.	75 dB	75 dB	60 dB	60 dB	50 dB
Insertion loss, max.	0.04 dB	0.04 dB	0.04 dB	0.06 dB	0.06 dB
Average power capability <sup>RFC1)</sup> at ambient temperature -10 to +45°C	2500 W	790 W	560 W	450 W	350 W
Peak voltage capability <sup>RFC1)</sup>	3.0 kV				

*RFC1) Standard conditions:* - Dielectric: Dry air under standard pressure at sea level ( $p = 1013 \text{ hPa}$ )  
 - Load VSWR, max. 1.0 (no standing wave)  
 - No modulation, sinusoidal carrier only

### Mechanical characteristics

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 <sup>EC1)</sup>	-30 to +60°C
Condensation	Not allowed
Relative humidity, max.	95%

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<p>Max. altitude above sea level</p>	<p>4,000 m or 13,120 ft per to IEC EN 60664-1</p>																						
<p>IP protection level</p>	<p>IP40 per to IEC EN 60529 (all interfaces terminated)</p>																						
<p>Installation position</p>	<p>Any</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 range</p>	<p>-30 to +70°C</p>																						

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

Rain, condensation, icing	Not allowed
<b>Storage conditions</b>	ETSI EN 300 019-1-1 V2.1.4 (2003-04) class 1.2
Ambient temperature range	-30 to +60°C
Rain, condensation, icing	Not allowed

*EC1) Conditions: Extended temperature range on request*

### Applicable documents

Outline	10114806
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