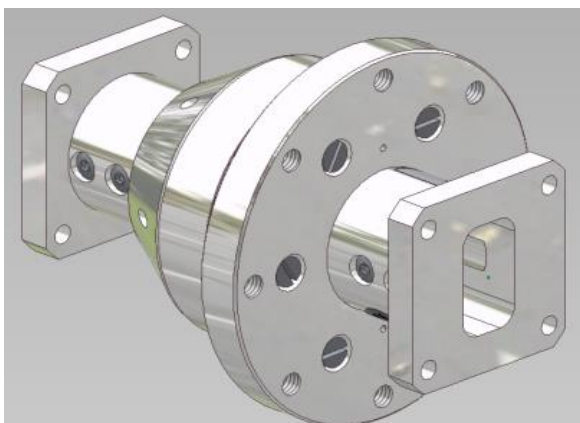


Rotary Joint || BN 635005



**Radio frequency characteristics**

Interface type / material / surface finish	UBR 100 (IEC 154) / aluminum alloy / chromated
Interface orientation	style I
Frequency range	8.5 to 10 GHz
Peak power capability	220 kW* / 100 kW** 50 kW*** / 2 kW****
Average power capability	300 W
VSWR, max.	1.2 @ 8.5 to 9 GHz 1.15 @ 9 to 9.6 GHz 1.2 @ 9.6 to 10 GHz
VSWR variation over rotation, max.	0.03
Insertion loss, max.	0.15 dB
Insertion loss variation over rotation, max.	0.05 dB
Phase variation over rotation, max.	-

Conditions:

\* Waveguide pressurized with dry air at absolute pressure, min.:  $2.0 \times 10^5$  Pa ( 2 bar)

\*\* Operating altitude if not pressurized: sea level;

\*\*\* Operating altitude if not pressurized: max. 3.500 m;

\*\*\*\* Operating altitude if not pressurized, max. 10.000 m;

## Rotary Joint || BN 635005

**Mechanical characteristics**

Differential operating pressure, nominal	0.2 MPa (2 bar)
Leakage rate, max.	20 cm <sup>3</sup> /minute @ nominal differential pressure
Rotating speed, max. / nominal	150 / 100 rpm
Life, min.	20 x 10 <sup>6</sup> revolutions
Torque (room / min. temperature), max.	0.8 Nm / - @ start-up 0.7 Nm / - @ rotation
Interface loads, max.	±75 N in axial direction ±75 N in radial direction
Case material	aluminum alloy
Case surface finish	painted RAL9005 jet black
IP protection level	IP65
Weight, approx.	0.5 kg
Marking	adhesive label

**Environmental conditions**

<b>Operation</b>	
Ambient temperature range	-40 to +71°C
Relative humidity, max.	95% (non-condensing)
<b>Storage</b>	
Ambient temperature range	-55 to +85°C
Relative humidity, max.	95% (non-condensing)

**Applicable Documents**

Drawing	635005-0E Issue B
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH

**Further Remarks**

*Absolute operating pressure, min.: Depending on peak power capability requirements, see table above*