

Rotary Joint || BN 945421



**Radio frequency characteristics**

Interface type / material / surface finish	N-f (50 Ω) / copper alloy / silver plated
Interface orientation	style I
Frequency range	DC to 5 GHz
Peak power capability	15 kW
Average power capability	1.0 kW @ 200 MHz / 400 W @ 1 GHz 300 W @ 2 GHz / 200 W @ 5 GHz
VSWR, max.	1.06 @ DC to 2.0 GHz 1.10 @ 2.0 to 4.0 GHz 1.15 @ 4.0 to 5.0 GHz
VSWR variation over rotation, max.	0.012
Insertion loss, max.	0.2 dB
Insertion loss variation over rotation, max.	0.05 dB
Phase variation over rotation, max.	1 deg.
DC carrying capability	-

Conditions: *Operating altitude if not pressurized, max. 5.000 m*

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**Mechanical characteristics**

Rotating speed, max. / nominal	100 / - rpm
Life, min.	5 x 10 <sup>6</sup> revolutions
Torque (room / min. temperature), max.	0.5 Nm / - @ start-up 0.5 Nm / - @ rotation
Interface loads, max.	±0 N in axial direction ±0 N in radial direction
Case material	copper alloy
Case surface finish	silver plated
IP protection level	IP65
Weight, approx.	1.0 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	945421-0E Issue B
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH