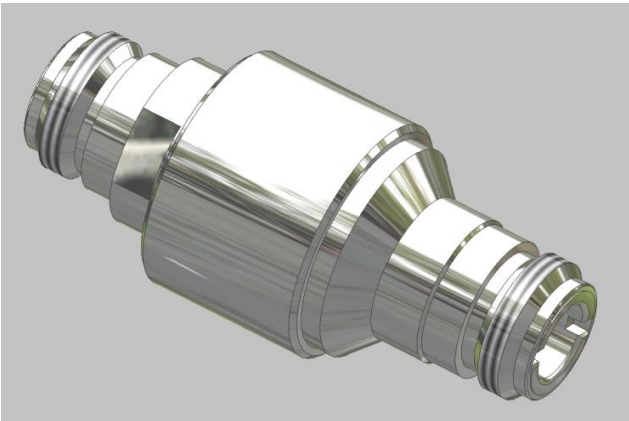


## Rotary Joint || BN 835030

**Radio frequency characteristics**

Interface type / material / surface finish	N-f (50 $\Omega$ ) / copper alloy / nickel plated
Interface orientation	style I
Frequency range	DC to 15 GHz
Peak power capability	14 kW
Average power capability	70 W
VSWR, max.	1.06 @ DC to 2 GHz 1.15 @ 2 to 8 GHz 1.20 @ 8 to 15 GHz
VSWR variation over rotation, max.	0.02
Insertion loss, max.	0.03 dB @ DC to 2 GHz 0.10 dB @ 2 to 8 GHz 0.20 dB @ 8 to 15 GHz
Insertion loss variation over rotation, max.	0.03 dB
Phase variation over rotation, max.	2 deg.
DC carrying capability	-

## Rotary Joint || BN 835030

**Mechanical characteristics**

Rotating speed, max. / nominal	300 / 200 rpm
Life, min.	5 x 10 <sup>6</sup> revolutions
Torque (room / min. temperature), max.	0.3 Nm / - @ start-up 0.3 Nm / - @ rotation
Interface loads, max.	±100 N in axial direction ±60 N in radial direction
Case material	copper alloy
Case surface finish	nickel plated
IP protection level	IP54
Weight, approx.	0.13 kg
Marking	laser engraving

**Environmental conditions**

<b>Operation</b>	
Ambient temperature range	-40 to +60°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	835030-0E Issue B
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH