

## Rotary Joint || BN 835088

**Radio frequency characteristics**

Interface type / material / surface finish	N-f (50 $\Omega$ ) / N-m (50 $\Omega$ ) / copper alloy / Cu-Sn-Zn plated
Interface orientation	style I
Frequency range	DC to 8 GHz
Peak power capability	5 kW
Average power capability	50 W
VSWR, max.	1.10 @ DC to 2 GHz 1.15 @ 2 to 5 GHz 1.2 @ 5 to 8 GHz
VSWR variation over rotation, max.	0.05
Insertion loss, max.	0.05 dB @ DC to 2 GHz 0.10 dB @ 2 to 5 GHz 0.15 dB @ 5 to 8 GHz
Insertion loss variation over rotation, max.	0.05 dB
Phase variation over rotation, max.	2 deg.
DC carrying capability	-

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**Mechanical characteristics**

Rotating speed, max. / nominal	200 / - rpm
Life, min.	5 x 10 <sup>6</sup> revolutions
Torque (room / min. temperature), max.	0.1 Nm / - @ start-up 0.1 Nm / - @ rotation
Interface loads, max.	±2 N in axial direction ±2 N in radial direction
Case material	copper alloy
Case surface finish	Cu-Sn-Zn plated
IP protection level	IP54
Weight, approx.	0.14 kg
Marking	adhesive label

**Environmental conditions**

<b>Operation</b>	
Ambient temperature range	-40 to +65°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	835088-OE Issue B
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH