

Rotary Joint || BN 821003



**Radio frequency characteristics**

Channel designation	Channel 1
Interface type / material / surface finish	7/8" EIA (50 Ω) / copper alloy / silver plated
Interface orientation	style I
Frequency range	DC to 4 GHz
Peak power capability	50 kW @ 200 MHz
Average power capability	4.5 kW @ 200 MHz
VSWR, max.	1.12
VSWR variation over rotation, max.	0.01
Insertion loss, max.	0.10 dB
Insertion loss variation over rotation, max.	0.02 dB
Phase variation over rotation, max.	1 deg.

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**Mechanical characteristics**

Rotating speed, max.	200 rpm
Life, min.	5 x 10 <sup>6</sup> revolutions
Torque (room temperature), max.	1 Nm @ start-up 1 Nm @ rotation
Interface loads, max.	±30 N in axial direction ±30 N in radial direction
Case material	copper alloy
Case surface finish	Painted RAL7001 silver grey
IP protection level	IP64 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx.	2 kg
Marking	adhesive label

**Environmental conditions**

<b>Operation</b>	
Ambient temperature range	-40 to +60°C
Relative humidity, max.	95% (non-condensing)
<b>Storage</b>	
Ambient temperature range	-50 to +70°C
Relative humidity, max.	95% (non-condensing)

**Applicable documents**

Drawing	821003-0E, Issue B
Product manual	M36066
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH