

Rotary Joint || BN 835103



**Radio frequency characteristics**

Interface type / material / surface finish	4.3-10 (50 Ω) male - female / copper alloy / CuSnZn plated
Interface orientation	style I
Frequency range	0.69 to 0.96 GHz 1.71 to 2.69 GHz
Peak power capability	6 kW
Average power capability	300 W @ ambient temperature 40° C max.
VSWR, max.	1.16 @ 0.69 to 0.79 GHz 1.10 @ 0.79 to 0.96 GHz 1.10 @ 1.71 to 2.69 GHz
VSWR variation over rotation, max.	0.04 @ 0.69 to 0.79 GHz 0.03 @ 0.79 to 0.96 GHz 0.03 @ 1.71 to 2.69 GHz
Insertion loss, max.	0.1 dB
Insertion loss variation over rotation, max.	0.03 dB
Phase variation over rotation, max.	1 deg.
Passive intermodulation level (3rd order), max. / typ.	-165 dBc / -168 dBc @ 2 x 20 W
DC carrying capability	none

**Mechanical characteristics**

Rotating speed, max. / nominal	60 rpm / 30 rpm
Life, min.	5 x 10 <sup>6</sup> revolutions
Case material	copper alloy
Case surface finish	CuSnZn plated
IP protection level	IP40 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx.	0.6 kg
Marking	adhesive label

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**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	835103-0E, Issue A
Product manual	M36066
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH