

Rotary Joint || BN 835050



**Radio frequency characteristics**

Interface type / material / surface finish	cable pigtails with F-m (75 Ω) connectors: copper alloy / nickel plated
Interface orientation	style U
Frequency range	DC to 3 GHz
Peak power capability	-
Average power capability	18 W
VSWR, max.	1.35 @ DC to 1 GHz 1.45 @ 1 GHz to 2 GHz 1.55 @ 2 GHz to 3 GHz
VSWR variation over rotation, max.	0.2
Insertion loss, max.	1.3 @ DC to 1 GHz 1.8 @ 1 GHz to 2 GHz 2.2 @ 2 GHz to 3 GHz
Insertion loss variation over rotation, max.	0.2 dB
Phase variation over rotation, max.	-
DC carrying capability	0.5 A @ 48 VDC, full RF avg. power 2 A @ 48 VDC, RF avg. power 1 W

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**Mechanical characteristics**

Rotating speed, max. / nominal	60 / 30 rpm
Life, min.	0.25 x 10 <sup>6</sup> revolutions
Torque (room / min. temperature), max.	0.05 Nm / 0.05 Nm @ start-up 0.05 Nm / 0.05 Nm @ rotation
Interface loads, max.	±0 N in axial direction ±0.1 N in radial direction
Case material	copper alloy
Case surface finish	partly plated by silver, nickel, tin
IP protection level	IP40
Weight, approx.	0.04 kg
Marking	stamping

**Environmental conditions**

<b>Operation</b>	
Ambient temperature range	-40 to +85°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	835050-0E Issue F
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH