

Rotary Joint || BN 840601

**Radio frequency characteristics**

Interface type / material / surface finish	1 5/8" EIA (50 Ω) / copper alloy / silver plated
Interface orientation	style I
Frequency range	DC to 2.8 GHz
Peak power capability	70 kW @ 200 MHz / 30 kW @ 1 GHz 22 kW @ 2 GHz / 18 kW @ 2.8 GHz
Average power capability	10 kW @ 200 MHz / 4.5 kW @ 1 GHz 3.0 kW @ 2 GHz / 2.5 kW @ 2.8 GHz
VSWR, max.	1.06
VSWR variation over rotation, max.	0.01
Insertion loss, max.	0.2 dB
Insertion loss variation over rotation, max.	0.02 dB
Phase variation over rotation, max.	1 deg.
DC carrying capability	-

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Mechanical characteristics

Rotating speed, max. / nominal	60 / 30 rpm
Life, min.	1.5 x 10 ⁶ revolutions
Torque (room / min. temperature), max.	2 Nm / 2 Nm @ start-up 1 Nm / 1Nm @ rotation
Interface loads, max.	±0 N in axial direction ±0 N in radial direction
Case material	copper alloy
Case surface finish	painted RAL7001 silver grey
IP protection level	IP65
Weight, approx.	2.8 kg
Marking	adhesive label

Environmental conditions

Operation	
Ambient temperature range	-40 to +60°C
Relative humidity, max.	95% (non-condensing)
Storage	
Ambient temperature range	-55 to +85°C
Relative humidity, max.	95% (non-condensing)

Applicable Documents

Drawing	840601-0E Issue B
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH