

Rotary Joint || BN 835039

**Radio frequency characteristics**

Interface type / material / surface finish	3.5-f (50 Ω) / copper alloy / gold plated
Interface orientation	style I
Frequency range	16.5 to 17.5 GHz
Peak power capability	200 W
Average power capability	20 W
VSWR, max.	1.3
VSWR variation over rotation, max.	0.05
Insertion loss, max.	0.4 dB
Insertion loss variation over rotation, max.	0.05 dB
Phase variation over rotation, max.	-
DC carrying capability	-

Rotary Joint || BN 835039

Mechanical characteristics

Rotating speed, max. / nominal	60 / 30 rpm
Life, min.	220 x 10 ⁶ revolutions
Torque (room / min. temperature), max.	0.5 Ncm / - @ start-up 0.5 Ncm / - @ rotation
Interface loads, max.	±1 N in axial direction ±1 N in radial direction
Case material	aluminum alloy
Case surface finish	chromate conversion coat per MIL-DTL-5541 type 1 or type 2
IP protection level	IP54
Weight, approx.	0.03 kg
Marking	adhesive label

Environmental conditions

Operation	
Ambient temperature range	-40 to +71°C
Relative humidity, max.	95% (non-condensing)
Storage	
Ambient temperature range	-55 to +85°C
Relative humidity, max.	95% (non-condensing)

Applicable Documents

Drawing	835039-0E Issue A
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH