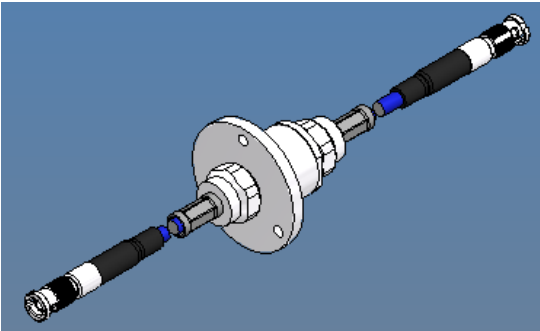


Rotary Joint || BN 835066



Radio frequency characteristics

| | |
|--|--|
| Channel designation | Channel 1 |
| Interface type / material / surface finish | stator side: cable pigtails with HD BNC male (75 Ω) / rotor side: cable pigtails with HD BNC male (75 Ω) connector surfaces: inner conductors - gold plated / outer conductors – Cu-Sn-Zn plated |
| Interface orientation | Style I |
| Frequency range | DC to 6 GHz |
| Average power capability | 20 W |
| VSWR, max. | 1.3 @ DC to 3 GHz 1.9 @ 3 to 6 GHz |
| VSWR variation over rotation, max. | 0.2 |
| Insertion loss, max. | 0.9 dB@ DC to 3 GHz 1.8 dB@ 3 to 6 GHz |
| Insertion loss variation over rotation, max. | 0.2 dB |
| DC carrying capability | 0.5 A @ 48 V DC, full RF avg. power 2A @ 48 V DC, 1W RF avg. power |

Mechanical characteristics

| | |
|---------------------------------|---|
| Rotating speed, max. | 60 rpm |
| Life, min. | 2*10 ⁶ revolutions @ 0.5 A max. DC current 0.25*10 ⁶ revolutions @ 2 A max. DC current |
| Torque (room temperature), max. | 0.05 Nm @ start-up 0.05 Nm @ rotation |
| Interface loads, max. | no loads allowed |
| Case material | copper alloy |
| Case surface finish | Cu-Sn-Zn |
| IP protection level | IP40 per EN 60529 |
| Weight, approx. | 0.1 kg |
| Marking | laser engraving |

Template TD-00002U

Rotary Joint || BN 835066

Environmental conditions

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

Applicable documents

| | |
|-----------------------|---|
| Drawing | 835066-0E, Issue A |
| Technical information | “Rotary Joints – Glossary”, Technical Document TD-00021, Spinner GmbH |