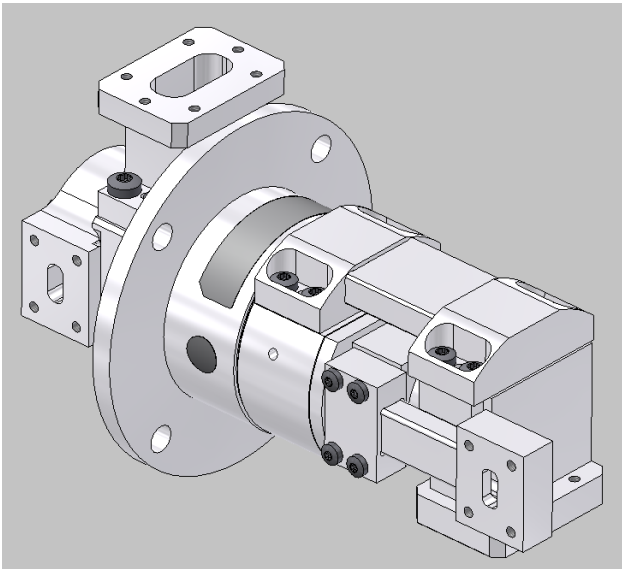


Dual Channel Rotary Joint || BN 635042



Annex: 635042-0E Issue A
 Product manual: M36066
 Application note: TD-00021

Radio frequency channel characteristics

| Channel designation | Channel 1 | Channel 2 |
|--|---|---|
| Interface type / material / surface finish | BJ140 special flange / aluminum alloy / chromated | BJ320 special flange / aluminum alloy / chromated |
| Interface orientation | style U | style U |
| Frequency range | 14.0 to 14.5 GHz | 29.4 to 31.0 GHz |
| Average power capability | 150W ^{RF1)} | 150W ^{RF1)} |
| VSWR, max. | 1.25 | 1.25 |
| Insertion loss, max. | 0.25 dB | 0.45 dB |
| Isolation, min. | 50 dB | |

^{RF1)} Conditions: - Operating altitude if not pressurized, max. 12000 m
 - The waveguide flange of the rotary joint must not exceed the defined maximum ambient temperature.

Dual Channel Rotary Joint || BN 635042

Mechanical data

| | |
|--------------------------------|---|
| Rotating speed, max. / nominal | 60 rpm / 30 rpm |
| Life, min. | 5 x 10 ⁶ revolutions |
| Case material | aluminum alloy |
| Case surface finish | chromate conversion coat per MIL-DTL-5541 type 1 or type 2 |
| IP protection level | IP40 per EN 60529 (all interfaces connected with appropriate gaskets) |
| Weight, approx. | 0.35 kg |
| Marking | adhesive label |

Environmental conditions

| | |
|---------------------------|---|
| Operation | |
| Application | airborne, plane |
| Ambient temperature range | -55 °C to +85 °C |
| Relative humidity, max. | 95% (non-condensing) |
| Shock | 30 g / 11 ms half sine, 3 shocks in each direction of 3 orthogonal axes Compliant to MIL-STD-810G |
| Vibration | 20-50 Hz, PSD of 0.02 g ² /Hz falling to 0.001 g ² /Hz at 500 Hz in each of 3 orthogonal axes Duration: 15 min/axis Compliant to MIL-STD-810G |
| Storage | |
| Ambient temperature range | -55 °C to +85 °C |
| Relative humidity, max. | 95% (non-condensing) |

Further remarks

No environmental test will be performed. A CoC for guarantee will only be issued, when customer performs all of these tests at his side and at his own expenses