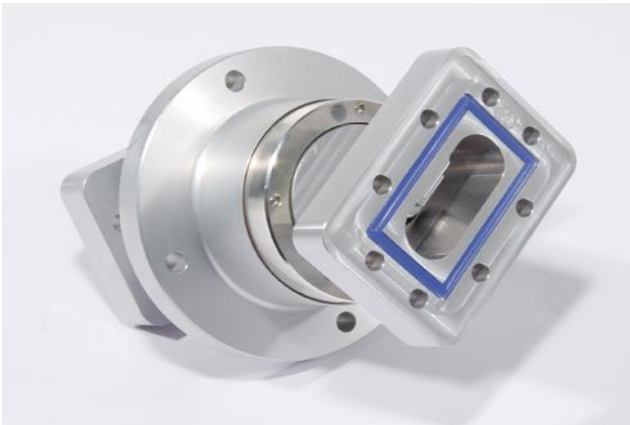


Rotary Joint || BN 634912



Radio frequency characteristics

Interface type / material / surface finish	CPR 137 G / aluminum alloy / chromated
Interface orientation	style I
Frequency range	5.8 to 7 GHz
Peak power capability	20 kW
Average power capability	5 kW
VSWR, max.	1.15 (typ. 1.1)
VSWR variation over rotation, max.	0.05 (typ. 0.02)
Insertion loss, max.	0.1 dB (typ. 0.05 dB)
Insertion loss variation over rotation, max.	0.05 dB (typ. 0.01 dB)
Phase variation over rotation, max.	2 deg. (typ. 1 deg.)

Conditions: *Operating altitude if not pressurized, max. 3.000 m
Load VSWR, max. 2.0*

The waveguide flange of the rotary joint must not exceed the defined maximum ambient temperature.

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Mechanical characteristics

Differential operating pressure, nominal	0.2 MPa (2 bar)
Leakage rate, max.	10 cm ³ /minute @ nominal differential pressure
Rotating speed, max. / nominal	150 / 100 rpm
Life, min.	20 x 10 ⁶ revolutions
Torque (room / min. temperature), max.	0.7 Nm / - @ start-up 0.8 Nm / - @ rotation
Interface loads, max.	±15 N in axial direction ±15 N in radial direction
Case material	aluminum alloy
Case surface finish	chromate conversion coat
IP protection level	IP65
Weight, approx.	0.7 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	634912-0E Issue B
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH