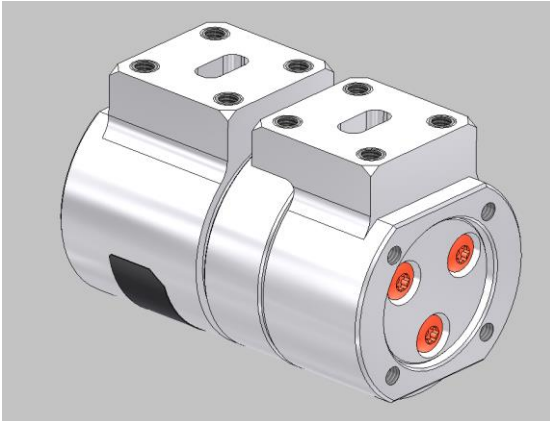


Rotary Joint || BN 635732



Radio frequency characteristics

Interface type / material / surface finish	UBR 320 (IEC 154) modified with HeliCoil M3 / aluminum alloy / chromated
Interface orientation	style U
Frequency range	27.5 to 31 GHz
Peak power capability	4 kW*
Average power capability	100 W
VSWR, max.	1.3
VSWR variation over rotation, max.	0.2
Insertion loss, max.	0.45 dB
Insertion loss variation over rotation, max.	0.2 dB
Phase variation over rotation, max.	3.5 deg.

Conditions:

* Operating altitude if not pressurized, max. sea level

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	-
Leakage rate, max.	- cm ³ /minute @ nominal differential pressure
Rotating speed, max. / nominal	300 / 200 rpm
Life, min.	200 x 10 ⁶ revolutions
Torque (room / min. temperature), max.	0.1 Nm / - @ start-up 0.1 Nm / - @ 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	IP40
Weight, approx.	0.15 kg
Marking	adhesive label

Environmental conditions

Operation	
Ambient temperature range	-55 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	635732-0E Issue A
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH

Further Remarks

Vibration: per MIL-STD-810G or DO-160G

Shock: per MIL-STD-810G or DO-160G