

Rotary Joint || BN 635710



**Radio frequency characteristics**

Interface type / material / surface finish	PBR 120 (IEC 154) / aluminum alloy / chromated
Interface orientation	style I
Frequency range	10.7 to 14.5 GHz
Peak power capability	5 kW
Average power capability	750 W
VSWR, max.	1.2 (typ. 1.15)
VSWR variation over rotation, max.	0.05 (typ. 0.02)
Insertion loss, max.	0.2 dB (typ. 0.1 dB)
Insertion loss variation over rotation, max.	0.1 dB (typ. 0.02 dB)
Phase variation over rotation, max.	2 deg.

Conditions: *Operating altitude if not pressurized, max. 2.000 m*

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**Mechanical characteristics**

Differential operating pressure, nominal	0.2 MPa (2 bar)
Leakage rate, max.	10 cm <sup>3</sup> /minute @ nominal differential pressure
Rotating speed, max. / nominal	150 / 100 rpm
Life, min.	20 x 10 <sup>6</sup> revolutions
Torque (room / min. temperature), max.	0.25 Nm / 1.5 (@ -30°C) @ start-up 0.20 Nm / 1.0 Nm (@ -30°C) @ rotation
Interface loads, max.	±15 N in axial direction ±15 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	IP65
Weight, approx.	0.25 kg
Marking	adhesive label

**Environmental conditions**

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

**Applicable Documents**

Drawing	635710-0E Issue -
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH