Rotary Joint || BN 634913

Radio frequency characteristics

Interface type / material / surface finish	CPR 137 G with one side threaded holes M5 / aluminum alloy / chromated
Interface orientation	style L
Frequency range	5.85 to 6.725 GHz
Peak power capability	10 kW
Average power capability	3.5 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

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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 per MIL-DTL-5541 type 1 or type 2
IP protection level	IP65
Weight, approx.	0.8 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	634913-0E Issue A
Technical information	“Rotary Joints – Glossary”, Technical Document TD-00021, Spinner GmbH