

Rotary Joint || BN 635240



Radio frequency characteristics

Channel designation	Inner channel (CH1)	Outer channel (CH2)
Interface type / material / surface finish	UG-136B/U modified with HC4x0.7 - 1.5d / R100 special / aluminum alloy / chromated	UG-136B/U modified with HC4x0.7 - 1.5d / R100 special / aluminum alloy / chromated
Interface orientation	style L	style L
Frequency range	9.3 to 9.5 GHz	9.3 to 9.5 GHz
Peak power capability	10 kW*	10 kW*
Average power capability	100 W	100 W
VSWR, max.	1.2	1.2
VSWR variation over rotation, max.	0.05	0.05
Insertion loss, max.	0.25 dB	0.3 dB
Insertion loss variation over rotation, max.	0.05 dB	0.05 dB
Phase variation over rotation, max.	1.5 deg.	1.5 deg.
Isolation, min.	60 dB	
DC carrying capability	-	-

Conditions:

* Operating altitude if not pressurized, max. 2.500 m
Pulse width, max. Channel 1: 1 μ s / Channel 2: 50 ns

Rotary Joint || BN 635240

Mechanical characteristics

Rotating speed, max. / nominal	60 / 30 rpm
Life, min.	120 x 10 ⁶ revolutions
Torque (room / min. temperature), max.	1 Nm / - @ start-up 1 Nm / - @ rotation
Interface loads, max.	±20 N in axial direction ±0 N in radial direction
Case material	aluminum alloy, sea water resistant
Case surface finish	painted RAL9005 jet black
IP protection level	IP65
Weight, approx.	1.6 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	635240-0E Issue E
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH

Further Remarks

Differential operating pressure 0.2 MPa (2 bar) max.

Differential operating pressure 0.1 MPa (1 bar) nominal

Leakage rate 25 cm³/minute @ nominal differential pressure max.

Interface load ±3 Nm bending moment max.