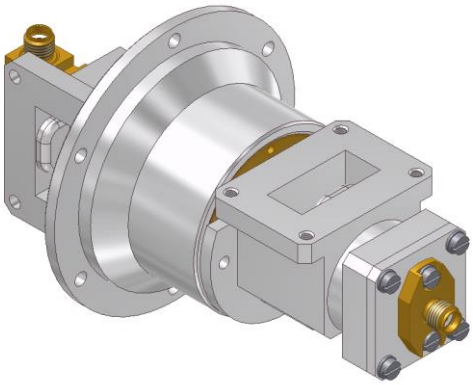
Rotary Joint || BN 635056



Radio frequency characteristics

Channel designation	Inner channel (CH1)	Outer channel (CH2)
Interface type / material / surface finish	per R100 special flange / aluminum alloy / chromated	3.5-f (50 Ω) / copper alloy / gold plated
Interface orientation	style U	style L
Frequency range	9 to 10 GHz	9 to 10 GHz
Peak power capability	2 kW*	1 W
Average power capability	200 W	0.1 W
VSWR, max.	1.2	1.35
VSWR variation over rotation, max.	-	-
Insertion loss, max.	0.2 dB	0.4 dB
Insertion loss variation over rotation, max.	-	-
Phase variation over rotation, max.	-	-
Isolation, min.	50 dB	
DC carrying capability	-	-

Conditions: *Operating altitude if not pressurized, max. 9.144 m*

Rotary Joint || BN 635056

Mechanical characteristics

Rotating speed, max. / nominal	60 / 30 rpm
Life, min.	5 x 10^6 revolutions
Torque (room / min. temperature), max.	0.20 Nm / - @ start-up 0.15 Nm / - @ rotation
Interface loads, max.	±0 N in axial direction ±0 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	IP67
Weight, approx.	0.35 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	635056-0E Issue A
Technical information	“Rotary Joints – Glossary”, Technical Document TD-00021, Spinner GmbH

Further Remarks

Differential operating pressure 0.5 bar max.
Absolute operating pressure 0.32 bar min.