

Rotary Joint || BN 636214



**Radio frequency characteristics**

Waveguide interface aperture	C 765 per IEC 60153-4 (WC 11 per TIA/EIA-200)
Waveguide interface connector	plane interface according to interface drawing; compatible to M3922/67-009 (UG-387/U) type flanges
Interface orientation	style I
Operating mode	TE <sub>11</sub>
Frequency range	73 to 110 GHz
Peak power capability	1.8 kW @ sea level 400 W @ 3000 m and VSWR <sub>load</sub> ≤ 2
Average power capability	5 W
VSWR, max.	1.2
VSWR variation over rotation, max.	0.1 @ 73 to 82 GHz 0.2 @ 82 to 110 GHz
Insertion loss, max.	0.5 dB
Insertion loss variation over rotation, max.	0.1 dB @ 73 to 82 GHz 0.2 dB @ 82 to 110 GHz
Phase variation over rotation, max.	2 deg. @ 73 to 82 GHz 4 deg. @ 82 to 110 GHz

**Mechanical characteristics**

Rotating speed, max.	5000 rpm
Life, min.	200 x 10 <sup>6</sup> revolutions
Torque (room temperature), max.	0.2 Nm @ start-up 0.2 Nm @ rotation
Interface loads, max.	±10 N in axial direction ±10 N in radial direction
Case material	copper alloy
Case surface finish	gold plated
IP protection level	IP40 per EN 60529 (all interfaces connected)
Weight, approx.	0.17 kg
Marking	adhesive label

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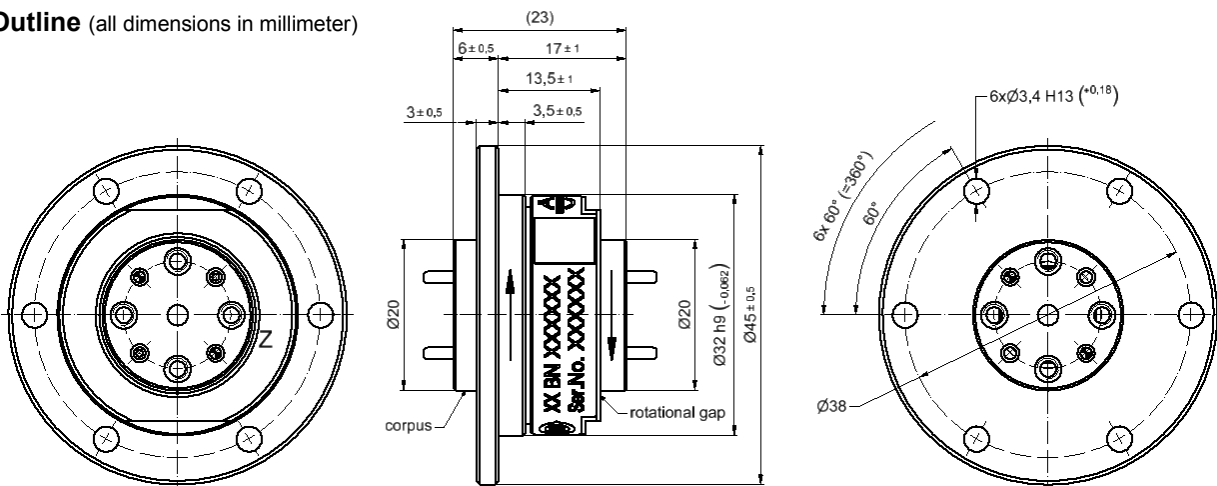
Environmental conditions

<b>Operation</b>	
Ambient temperature range	-55 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

Technical information	“Rotary Joints – Glossary”, Technical Document TD-00021, Spinner GmbH
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Outline (all dimensions in millimeter)



Interface (all dimensions in millimeter)

