

Rotary Joint || BN 636283



Radio frequency characteristics

Waveguide interface aperture	R 900 per IEC 60153-2 WR 10 per EIA RS-261 WM-2540 per IEEE Std 1785.1
Waveguide interface connector	plane split-block interface; compatible to M3922/67-010 (UG-387/U-mod) type flanges
Interface orientation	style I
Frequency range	75 to 110 GHz
Peak power capability	300 W
Average power capability	3 W
VSWR, max. / typ.	1.8 / 1.5
VSWR variation over rotation, max.	0.3
Insertion loss, max. / typ.	1.25 dB / 1.0 dB
Insertion loss variation over rotation, max.	0.2 dB
Phase variation over rotation, max. / typ.	4 deg. / 2 deg. (tbc)

Mechanical characteristics

Rotating speed, max.	60 rpm
Life, min.	5 x 10 ⁶ revolutions (tbc)
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.	0.27 kg
Marking	adhesive label

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Environmental conditions

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

