

Rotary Joint || BN 636210



Radio frequency characteristics

Waveguide interface aperture	circular waveguide WC 6.7 with 1.702 mm diameter	
Waveguide interface connector	plane interface according to interface drawing; compatible to M3922/67-010 (UG-387/U-mod) type flanges	
Interface orientation	style I	
Operating mode	TE ₁₁	TM ₀₁
Frequency range	110 to 210 GHz	140 to 200 GHz (tbc)
Peak power capability	1.8 kW @ sea level 400 W @ 3000 m and VSWR _{load} ≤ 2	700 W @ sea level 160 W @ 3000 m and VSWR _{load} ≤ 2
Average power capability	5 W	5 W
VSWR, max.	1.2 @ 110 to 200 GHz 1.4 @ 200 to 210 GHz	1.4 (tbc)
VSWR variation over rotation, max.	0.2	0.2 (tbc)
Insertion loss, max.	0.6 dB @ 110 to 200 GHz 0.8 dB @ 200 to 210 GHz	0.6 dB (tbc)
Insertion loss variation over rotation, max.	0.1 dB	0.1 dB (tbc)
Phase variation over rotation, max.	2 deg.	2 deg. (tbc)

Mechanical characteristics

Rotating speed, max.	5000 rpm
Life, min.	200 x 10 ⁶ 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

