

Rotary Joint || BN 835089



Radio frequency characteristics

Interface type / material / surface finish	7-16 (50 Ω) male – female / copper alloy / CuSnZn plated
Interface orientation	style I
Frequency range	0.69 to 0.96 GHz 1.71 to 2.69 GHz
Peak power capability	6 kW
Average power capability	300 W @ ambient temperature 40° C max.
VSWR, max.	1.16 @ 0.69 to 0.79 GHz 1.10 @ 0.79 to 0.96 GHz 1.10 @ 1.71 to 2.69 GHz
VSWR variation over rotation, max.	0.05 @ 0.69 to 0.79 GHz 0.03 @ 0.79 to 0.96 GHz 0.03 @ 1.71 to 2.55 GHz 0.05 @ 2.55 to 2.69 GHz
Insertion loss, max.	0.1 dB
Insertion loss variation over rotation, max.	0.03 dB
Phase variation over rotation, max.	1.4 @ 0.69 to 0.79 GHz 1.0 @ 0.79 to 0.96 GHz 1.0 @ 1.71 to 2.55 GHz 1.4 @ 2.55 to 2.69 GHz
Passive intermodulation level (3rd order), max. / typ.	-165 dBc / -168 dBc @ 2 x 20 W
DC carrying capability	none

Mechanical characteristics

Rotating speed, max. / nominal	60 rpm / 30 rpm
Life, min.	5 x 10 ⁶ revolutions
Case material	copper alloy
Case surface finish	CuSnZn plated
IP protection level	IP40 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx.	0.9 kg
Marking	adhesive label

Template TD-00002V

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Environmental conditions

Operation	
Ambient temperature range	-40 to +60°C
Relative humidity, max.	95% (non-condensing)
Storage	
Ambient temperature range	-55 to +85°C
Relative humidity, max.	95% (non-condensing)

Applicable documents

Drawing	835089-0E, Issue A
Product manual	M36066
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH