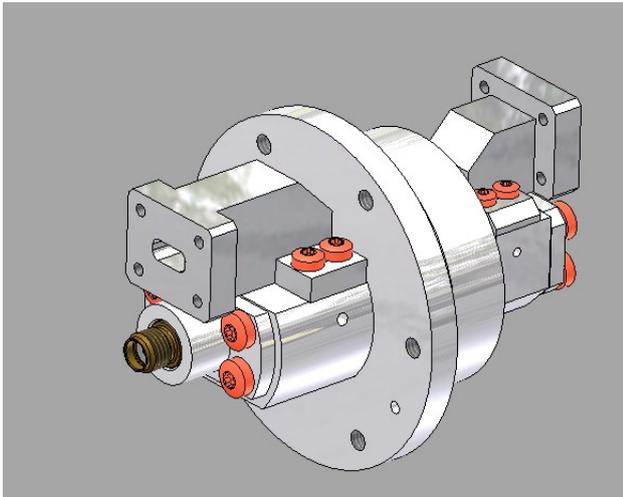


Dual Channel Rotary Joint || BN 635041



Annex: 635041-0E Issue A
 Product manual: M36066
 Application note: TD-00021

Radio frequency channel characteristics

Channel designation	Channel 1	Channel 2
Interface type / material / surface finish	BJ320 special flange / aluminum alloy / chromated	SMA-f (50 Ω) / copper alloy / gold plated
Interface orientation	style I	style I
Frequency range	29.4 to 31.0 GHz	1.4 to 2.7 GHz
Average power capability	150W ^{RF1)}	1W
VSWR, max.	1.25	1.20
Insertion loss, max.	0.4dB	0.4dB
Isolation, min.	50 dB	

^{RF1)} Conditions: - Operating altitude if not pressurized, max. 12.000 m
 - The waveguide flange of the rotary joint must not exceed the defined maximum ambient temperature.

Mechanical data

Rotating speed, max. / nominal	60 rpm / 30 rpm
Life, min.	5 x 10 ⁶ revolutions
Case material	aluminum alloy
Case surface finish	chromate conversion coat per MIL-DTL-5541 type 1 or type 2 Painted ---
IP protection level	IP40 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx.	0.4 kg
Marking	adhesive label

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Environmental conditions

Operation	
Application	airborne, plane
Ambient temperature range	-55 °C to +85 °C
Relative humidity, max.	95% (non-condensing)
Shock	30 g / 11 ms half sine, 3 shocks in each direction of 3 orthogonal axes Compliant to MIL-STD-810G
Vibration	20-50 Hz, PSD of 0.02 g ² /Hz falling to 0.001 g ² /Hz at 500 Hz in each of 3 orthogonal axes Duration: 15 min/axis Compliant to MIL-STD-810G
Storage	
Ambient temperature range	-55 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

Further remarks

No environmental test will be performed. A CoC for guarantee will only be issued, when customer performs all of these tests at his side and at his own expenses