

Single Channel Rotary Joint || BN 835044



Outline and dimensions as per drawing 835044-0E Issue C

Radio frequency channel characteristics

Interface type / material / surface finish	SMA-f (50 Ω) / copper alloy / gold plated TNC (50 Ω) / copper alloy / nickel plated
Interface orientation	style I
Frequency range	1.525 to 1.661 GHz
Peak power capability	1 kW
Average power capability	6 W
VSWR, max.	1.7
VSWR variation over rotation, max	0.05
Insertion loss, max.	1.7 dB
Insertion loss variation over rotation, max.	0.1 dB
Phase variation over rotation, max.	1°
DC carrying capability	6 W

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General mechanical data

Rotating speed, max.	30 rpm
Life, min.	1 x 10 ⁶ revolutions
Torque (room / min. temperature), max.	0.04 Nm @ start-up 0.04 Nm @ rotation
Case material	copper alloy
Case surface finish	tin plated
Weight, approx.	0.5 kg
Marking	adhesive label

General environmental conditions

Operation	
Ambient temperature range	-25 to +55°C
Relative humidity, max.	95% (non-condensing)
IP protection level	IP 50 per EN 60529 (all interfaces connected with appropriate gaskets)
Shock	20 g / 11 ms
Vibration	4-10 Hz 5.1mm peak to peak 10-15 Hz 1.6mm peak to peak 15-25 Hz 1.1mm peak to peak 26-33 Hz 0.6mm peak to peak
Storage	
Ambient temperature range	-35 to +70°C
Relative humidity, max.	95% (non-condensing)