

CRJ-04

General Description

Coax rotary joint also could be called high frequency slip ring or connector, which is used for continuous rotation device to transmit hi-frequency signal between fix part and rotary part. This kind of rotary joint can be an element which installed on the cable or instrument as transmitting or breaking the line of electrical connections. The max frequency range reach up to 40GHz (or higher) analog signal and high speed digital signal.

Features:

1. Small size & light weight
2. Channels could be up to 18
3. Frequency range can reach to 40GHz or higher
4. Low attenuation loss and low wear
5. Can not be used in high work speed application
6. Longer life time & maintenance free

Option:

1. Channels
2. Electrical part combines with coax rotary joint
3. Support broadband signal and SDI signal
4. Cable length and size
5. 50Ω and 75Ω impedance are optional



Application:

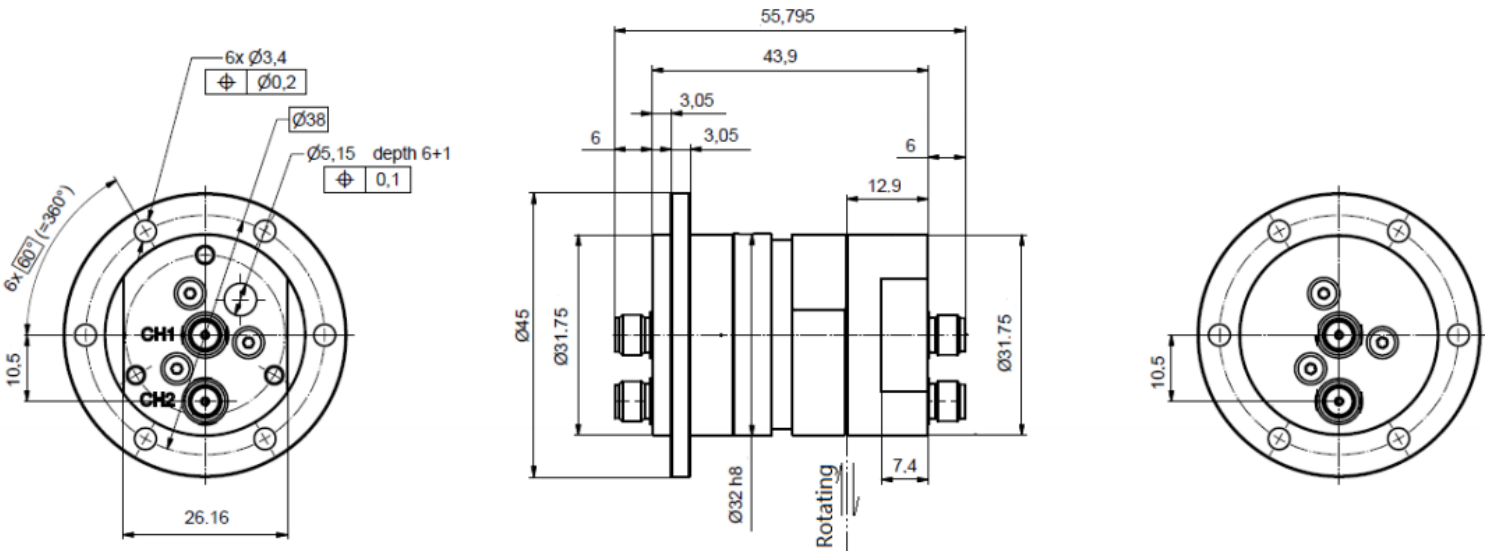
1. Radar & antenna
2. Satellite communication system
3. Analog high frequency electronic system
4. CCTV & video monitoring device
5. Military system equipment

Specification:

| Specification | | |
|----------------------------|------------------------|-----------------------|
| Channel | 1 channel | 2 channel |
| Frequency Range | DC-5GHz | |
| Specific Impedance | 50Ω(SMA Female) | |
| Average Loading Power | 60W@5GHz | 50W@5GHz |
| Peak Power (Max) | 1500W | |
| Contact Materials | Beryllium Alloy | |
| Insertion Loss(Max) | 0.25dB | 0.45dB |
| Insertion Loss WOW (Max) | 0.05dB | 0.15dB |
| VSWR (Max) | 1.2 | 1.5 |
| VSWR-WOW (Max) | 0.05 | 0.15 |
| Phase WOW (Max) | 0.5 degree | 4.0 degree |
| Isolation | 50dB min./60dB typical | |
| DC Power | 0.5A*48VDC@full power | 0.5A*24VDC@full power |
| Work Temperature | -40 C -+70 C | |
| Work Humidity | 85%RH or higher | |
| Work Speed | 600RPM Max | |
| Life Times | 10 million rotations | |
| Starting Torque (Max) | 5Ncm | |
| Housing Material | Aluminum Alloy | |
| Protection | IP60 | |

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Drawing:



If you have specific customized requirement, please feel free to consult us so that our sales engineer could recommend the most suitable product to you for you reference.