



# RF Rotary Joints and Coax Slip Rings — Specification Sheet

An RF rotary joint carries microwave and coaxial signals through a rotating interface while holding VSWR and insertion loss steady through the full turn.

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| Models in this sheet | 27                                                  |
| Manufacturer         | JiuJiang Ingiant Technology Co., Ltd                |
| Established          | 2014                                                |
| Quality system       | ISO 9001, GJB9001C, GB/T 19001-2008 / ISO 9001:2008 |
| Standard lead time   | 7–15 days                                           |
| Customised lead time | 10–20 days simple, 15–40 days complex               |
| Delivery port        | Jiujiang, China Mainland                            |
| Warranty             | 12 months from date of sale                         |
| Enquiries            | sales@ingiant.com · WhatsApp +86 138 7929 7499      |

## What this family solves

On a rotating antenna or radar head the feed cannot be allowed to wind, and any variation in the rotating contact shows up directly as phase and amplitude ripple in the received signal.

INGIANT builds single and multi-channel RF rotary joints and coaxial slip rings, and integrates them with power and signal rings so one body feeds the antenna and its drive and control circuits.

## Model list with published parameters

| Model / product                                                                | Circuits | Voltage       | Current           | Speed    | IP   |
|--------------------------------------------------------------------------------|----------|---------------|-------------------|----------|------|
| DHS110-22-2S Ingiant RF Slip Ring 110mm solid shaft with 2 channels RF...      | 22       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS120-120-5S Ingiant RF slip ring out diameter 120mm 5 channels RF rotary...  | 120      | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS105-76-2S High frequency slip ring 105mm with 2 channel high frequency...   | 76       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS048-56-1S Ingiant RF Rotary Joint inner diameter 48mm with 1 channel...     | 56       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS090-72-3S Ingiant 90mm RF slip ring combination three-channel coaxial...    | 72       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS055-49-1S Ingiant 55mm high frequency slip ring with 1 channel high...      | 49       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS056-48-1S OD 56mm HD video slip ring with 1channel high-definition video... | 48       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS064-25 RF rotary joints 64mm combination Dual-channel RF coaxial rotary...  | 25       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS080-84-2S 2 high frequency channels RF slip ring 80mm mix 84 channels of... | 84       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS074-46-6S RF slip ring support 6 RF channels hybrid 46 channels power or... | 46       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS090-21-3S 90mm 3-channel RF rotary joint + electrical + 2channels 100M...   | 21       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS088-51-3S RF slip ring diameter 88mm 3channels RF signals used for radar... | 51       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS060-21-1S RF hybrid slip ring 1 channel RF + 21 channels power signal...    | 21       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS020-9 high frequency conductive slip ring diameter 20mm 9 channels          | —        | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS095-36-3S RF slip ring combination 3-way RF, power, 100M network for...     | 36       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |
| DHS080-43-1S RF conductive slip ring 1-channel RF + 43-channel power signal    | 43       | 0–240 VAC/VDC | can be customized | 0–600rpm | IP54 |



| Model / product                                                                | Circuits               | Voltage       | Current           | Speed    | IP   |
|--------------------------------------------------------------------------------|------------------------|---------------|-------------------|----------|------|
| DHS078-19-1S RF rotary joint 1-channel radio frequency rotating joint +...     | 19                     | 0~240 VAC/VDC | can be customized | 0~600rpm | IP54 |
| DHS075-60-1S solid shaft slip ring 1channel RF rotary joint + electric...      | 60                     | 0~240 VAC/VDC | can be customized | 0~600rpm | IP54 |
| DHS160-41-2S RF high frequency rotary joint 2-Channel RF Rotary Joint with...  | 41                     | 0~240 VAC/VDC | can be customized | 0~600rpm | IP54 |
| DHS037-72-1S RF hybrid slip rings combine 72channels electrical/ signal and... | 72                     | 0~240 VAC/VDC | can be customized | 0~600rpm | IP54 |
| DHS090-9-4F hybrid slip rings 4 channels fiber optical rotary joint combine... | —                      | 0~240 VAC/VDC | can be customized | 0~600rpm | IP54 |
| DHS070-95-1S hybrid slip ring combined 95 electrical channels and one RF...    | 95                     | 0~240 VAC/VDC | can be customized | 0~600rpm | IP54 |
| DHK034-11-2S RF conductive slip ring combination 2 channels RF + 11channels... | 11                     | 0~240 VAC/VDC | 2A,5A,10A,15A,20A | 0~600rpm | IP54 |
| Ingiant Radio Frequency slip ring diameter 48mm                                | According to requireme | 0~240 VAC/VDC | 2A,5A,10A,15A,20A | 0~600rpm | IP54 |
| Ingiant radio high speed high frequency rotary joint                           | —                      | —             | —                 | —        | —    |
| Ingiant Dual Channel Coaxial rotary joint                                      | —                      | —             | —                 | —        | —    |
| Ingiant RJ02-501 dual channel high frequency joint slip ring                   | 144                    | 0~240 VAC/VDC | can be customized | 0~600rpm | IP54 |

## How to order

Send these eight inputs and INGIANT returns a design and a drawing: Operating speed in rpm; Type of installation and mounting interface; Installation envelope and bore size; Number of circuits, counted as single wires beside the cable; Rated voltage and current for the power rings and the signal rings; Signal type and its parameters — this is the parameter that decides the design; Operating temperature range; IP sealing requirement.

Dashes in the table mean the value is not published for that model because the build is set against the customer drawing. It is issued with the quotation.