

WAVEGUIDE ROTARY JOINTS (Model # : ARJ SERIES)



Description

- LOW VSWR
- LOW INSERTION LOSS
- LOW WOW

The basic design of the ACTIPASS Rotary Joint is connection of two "Waveguide to Coaxial Transitions" Because coaxial parts are symmetrical in ϕ direction, free rotation without performance degradation is accomplished. In the rotating part, electrical continuity is achieved by $\lambda/4$ -chokes eliminating metal contacts.

The Rotary Joints can have both waveguide ports at a right angle to the rotational axis, "U-style", one waveguide port at a right angle and one in line, "L-style" or both waveguide ports in line. "I-style".

Waveguide Rotary Joint modules are available for all frequency bands. UG, CPR, CMR, PDR and other flanges are available upon request.

Application

Radar and ECM or ECCM
Satellite and broadcasting

Specifications

- I-Style

Model No.	Frequency Range GHz	VSWR	VSWR WOW	Insertion Loss [dB]	Avg. Power [W]
ARJ-28UU1-I [*]	32 ~ 35 GHz	1.2:1	1.05:1	0.2 dB max.	100W
ARJ-62UU1-I	12 ~ 18 GHz	1.5:1	1.05:1	0.5 dB max.	20W
ARJ-75UU1-I	13.75 ~ 14.5 GHz	1.2:1	1.05:1	0.3 dB max.	200W
ARJ-75UU2-I [*]	13.75 ~ 14.5 GHz	1.2:1	1.05:1	0.2 dB max.	1,000W
ARJ-90UU1-I	8.5 ~ 9.6 GHz	1.2:1	1.05:1	0.3 dB max.	100W
ARJ-90UU2-I	8.5 ~ 9.6 GHz	1.15:1	1.05:1	0.2 dB max.	600W
ARJ-90UU3-I [*]	10 ~ 10.5 GHz	1.2:1	1.05:1	0. dB max. 2	2,000W
ARJ-137UU1-I	5.86 ~ 6.65 GHz	1.20:1	1.05:1	0.3 dB max.	150W
ARJ-187UU1-I [*]	5.4 ~ 5.9 GHz	1.2:1	1.05:1	0.2 dB max.	10,000W
ARJ-430UU1-I	2.025 ~ 2.12 GHz	1.20:1	1.05:1	0.2 dB max.	5,000W

- TM01 Mode

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- L-Style

Model No.	Frequency Range [GHz]	VSWR	VSWR WOW	Insertion Loss	Avg. Power
ARJ-28UU1-L*	32 ~ 35 GHz	1.2:1	1.05:1	0.2dB max.	100W
ARJ-62UU1-L	12 ~ 18 GHz	1.5:1	1.05:1	0.5 dB max.	20W
ARJ-75UU1-L	13.75 ~ 14.5 GHz	1.2:1	1.05:1	0.3 dB max.	200W
ARJ-75UU2-L*	13.75 ~ 14.5 GHz	1.2:1	1.05:1	0.2 dB max.	1,000W
ARJ-90UU1-L	8.5 ~ 9.6 GHz	1.2:1	1.05:1	0.3 dB max.	1,00W
ARJ-90UU2-L	8.5 ~ 9.6 GHz	1.15:1	1.05:1	0.2 dB max.	600W
ARJ-90UU3-L*	10 ~ 10.5 GHz	1.2:1	1.05:1	0.2 dB max.	2,000W
ARJ-137UU1-L	5.86 ~ 6.65 GHz	1.20:1	1.05:1	0.3 dB max.	150W
ARJ-187UU1-L*	5.4 ~ 5.9 GHz	1.2:1	1.05:1	0.2 dB max.	10,000W
ARJ-430UU1-L	2.025 ~ 2.12 GHz	1.20:1	1.05:1	0.2 dB max.	5,000W

- TM01 Mode

- U-Style

Model No.	Frequency Range	VSWR	VSWR WOW	Insertion Loss	Avg. Power
ARJ-28UU1-U*	32 ~ 35 GHz	1.2:1	1.05:1	0.2 dB max.	100W
ARJ-62UU1-U	12 ~ 18 GHz	1.5 :1	1.05:1	0.5 dB max.	20W
ARJ-75UU1-U	13.75 ~ 14.5 GHz	1.2:1	1.05:1	0.3 dB max.	200W
ARJ-75UU2-U*	13.75 ~ 14.5 GHz	1.2:1	1.05:1	0.2 dB max.	1,000W
ARJ-90UU1-U	8.5 ~ 9.6 GHz	1.2:1	1.05:1	0.3 dB max.	100W
ARJ-90UU2-U	8.5 ~ 9.6 GHz	1.15:1	1.05:1	0.2 dB max.	600 W
ARJ-90UU3-U*	10 ~ 10.5 GHz	1.2:1	1.05 :1	0.2 dB max.	2,000W
ARJ-137UU1-U	5.86 ~ 6.65 GHz	1.20:1	1.05:1	0.3 dB max.	150W
ARJ-187UU1-U*	5.4 ~ 5.9 GHz	1.2:1	1.05:1	0.2 dB max.	10,000W
ARJ-430UU1-U	2.025 ~ 2.12 GHz	1.20:1	1.05:1	0.2 dB max.	5,000W

- TM01 Mode

* The specification can be modified upon buyer's requests.

* All specifications are subject to change without notice.

* The latest specifications are available at www.actipass.com