



## Hybrid Combiner

The JAMPRO RCHC three dB combiner is fabricated with high strength, non-ferrous materials and requires no external cooling when used within its ratings. This family of hybrid combiners is ideal for summing two VHF Band I or III, and FM Band II transmitters to provide higher power while allowing switch-less, automatic fall back to one quarter of normal power in case of failure of one of the two transmitters. To allow ease of installation, the product is available in EIA flanged or non-flange models. The maximum power rating is from 1 kW to 275 kW. This product is available stand-alone or with the necessary reject load and/or 90 degree line stretcher. Further enhancements include auxiliary RF patch panels and/or coaxial switches to allow by pass and operation at half power from one transmitter while the other one is being serviced and feed into the dummy load. Other applications include RF feeder system designs.



### RCHC-99-16FM

Band II, 3dB Hybrid Crossover Configuration  
Power Level: 275 kW Max.

Model #	Input/Output	Flanged/Unflanged
RCHC-996-16FMF	3 x 9-3/16", 1 x 6-1/8"	Flanged
RCHC-999-16FMF	4 x 9-3/16"	Flanged

### SPECIFICATIONS

Coupling	Insertion Loss	VSWR	Isolation
3 dB +/- 0.1 dB	0.1 dB Max Over Band	1.06:1 Max Over Band	> 30 dB Over Band

\*Unflanged option available



## SPECIFICATIONS

Coupling	Insertion Loss	VSWR	Isolation
3 dB +/- 0.1 dB	0.1 dB Max Over Band	1.06:1 Max Over Band	> 30 dB Over Band
<b>RCHC-111-FM</b>			
Band II, 3dB Hybrid Crossover Configuration Power Level: 1 kW Max not to exceed connector rating			
Model #	Input/Output	Flanged/Unflanged	
RCHC-111-FM	4 x 7/8"	Unflanged	
RCHC-111-FMF	4 x 7/8"	Flanged	
<b>RCHC-###-9FM</b>			
Band II, 3dB Hybrid Crossover Configuration Power Level: 100 kW Max. not to exceed connector rating			
Model #	Input/Output	Flanged/Unflanged	
RCHC-433-9FM	3 x 3-1/8" & 1 x 4-1/16"	Unflanged	
RCHC-633-9FM	3 x 3-1/8" & 1 x 6-1/8"	Unflanged	
RCHC-644-9FM	1 x 6-1/8" & 1 x 4-1/16"	Unflanged	
RCHC-663-9FM	3 x 6-1/8" & 1 x 3-1/8"	Unflanged	
<b>RCHC-###-6FM</b>			
Band II, 3dB Hybrid Crossover Configuration Power Level: 40 kW Max. not to exceed connector rating			
Model #	Input/Output	Flanged/Unflanged	
RCHC-222-6FM	4 x 1-5/8"	Unflanged	
RCHC-322-6FM	3 x 1-5/8" & 1 x 3-1/8"	Unflanged	
RCHC-323-6FM	2 x 1-5/8" & 2 x 3-1/8"	Unflanged	
RCHC-332-6FM	1 x 1-5/8" & 3 x 3-1/8"	Unflanged	
RCHC-333-6FM	4 x 3-1/8"	Unflanged	

\*Flanged option available