

3 dB Couplers are widely used either as power dividers or power combiners for several RF applications. RYMSA offers an extensive line of these products for the different frequency bands related to broadcast.

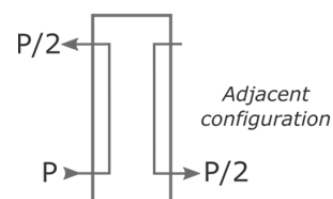
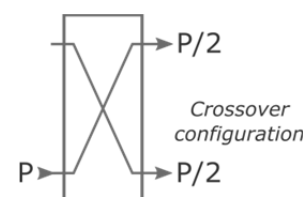
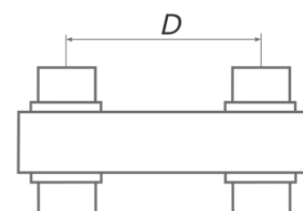
Crossover and adjacent configurations are available as per the table included.

Technical Specifications

Impedance	50 Ohm	
VSWR	1.05:1 (VHF-FM)	1.06:1 (UHF)
Isolation	≥ 32 dB (VHF-FM)	≥ 30 dB (UHF)
Amplitude split / phase split	-3 ± 0.3 dB / $-90^\circ \pm 2^\circ$	
Materials	Outer conductor	Aluminium
	Inner conductor	Aluminium or silver plated brass
	Isolators	PTFE
	Screws	Stainless steel
Temperature range	-10°C to $+50^\circ\text{C}$	

Models

Range	Bandwidth	Size & ports	RMS Power	Model	Type	D
TV VHF BI	54-88 MHz	1 5/8"	16 kW	AC11-222	Crossover	1060
		3 1/8"	55 kW	AC11-224	Crossover	1060
FM BII	87.5-108 MHz	7/16	2.5 kW	AC12-200	Crossover	780
		1 5/8"	13 kW	AC12-222	Crossover	780
				AC12-322	Adjacent	744
		3 1/8"	40 kW	AC12-224	Crossover	780
				AC12-324	Adjacent	744
		4 1/2"	70 kW	AC12-230	Crossover	780
				AC12-330	Adjacent	744
		6 1/8"	160 kW	AC12-226	Crossover	780
TV VHF BIII	174-230 MHz	9 3/16"	300 kW	AC12-340	Crossover	780
		7/8"	2 kW	AC13-320	Adjacent	370
		1 5/8"	9 kW	AC13-222	Crossover	400
				AC13-322	Adjacent	370
		3 1/8"	30 kW	AC13-224	Crossover	400
				AC13-324	Adjacent	370
		4 1/2"	50 kW	AC13-330	Adjacent	370
		6 1/8"	115 kW	AC13-326	Adjacent	370
TV UHF BIV-V	470-860 MHz	7/16	1.2 kW	AC15-200	Crossover	116
				AC15-200	Crossover	154
				AC15-200	Crossover	179
		7/8"	2 kW	AC15-220	Crossover	154
		1 5/8"	5 kW	AC15-222	Crossover	179
		3 1/8"	15 kW	AC15-224	Crossover	179
				AC15-322	Adjacent	112
		3 1/8"	18 kW	AC15-224	Crossover	340
TV UHF BIV-V	470-830 MHz	4 1/2"	25 kW	AC15-230	Crossover	179
		6 1/8"	36 kW	AC15-230	Crossover	340
				AC15-230	Crossover	340
TV UHF BIV-V	470-830 MHz	6 1/8"	36 kW	226333D	Crossover	616
		6 1/8"	50 kW	226333D	Crossover	616



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Other models not displayed in this list are available under request