

Horwin CH-V/Ux-x series is a hybrid combiners with ferrite isolators used for combining several VHF/UHF transmitters into one antenna with close frequency spacing. Combiners are configured in sets of 2 or 4 channels.

There are two model versions – single or dual ferrite isolators depending on the required Tx – Tx isolation and (or) low/high power. Nominal impedance is 50 Ohms. N-type “female” connectors are used for input/output connections. Combiners are mounted on standard EIA 19” panel 3 U high and 355 mm depth.

Combiners are tuned at customer specified frequencies, so transmit frequencies should be specified when ordering.



		CH-V2-1L(H)	CH-V2-2L(H)	CH-V4-1L(H)	CH-V4-2L(H)
CH	Combiner (hybrid)				
x	frequency range (V=VHF)				
x	Tx Channels				
x	isolator type (1=single, 2=dual)				
x	input power (L=50W, H=100W)				
		2 channels VHF hybrid combiner with single isolator	2 channels VHF hybrid combiner with dual isolator	4 channels VHF hybrid combiner with single isolator	4 channels VHF hybrid combiner with dual isolator
	Frequency range, MHz	144 – 174	144 – 174	144 – 174	144 – 174
	Max input power, W	50 (100)	50 (100)	50 (100)	50 (100)
	Isolator	single	dual	single	dual
	Isolation Tx – Tx, dB	>60	>80	>60	>80
	Insertion losses Tx – Ant, dB	<4	<4.5	<7.5	<8
	SWR	<1,3	<1,3	<1,3	<1,3
	Weight, kg	5,4	5,5	6,4	6,5

		CH-U2-1L(H)	CH-U2-2L(H)	CH-U4-1L(H)	CH-U4-2L(H)
CH	Combiner (hybrid)				
x	frequency range (U=UHF)				
x	Tx Channels				
x	isolator type (1=single, 2=dual)				
x	input power (L=50W, H=100W)				
		2 channels UHF hybrid combiner with single isolator	2 channels UHF hybrid combiner with dual isolator	4 channels UHF hybrid combiner with single isolator	4 channels UHF hybrid combiner with dual isolator
	Frequency range, MHz	400 – 470	400 – 470	400 – 470	400 – 470
	Max input power, W	50 (100)	50 (100)	50 (100)	50 (100)
	Isolator	single	dual	single	dual
	Isolation Tx – Tx, dB	>60	>80	>60	>80
	Insertion losses Tx – Ant, dB	<4	<4.5	<7.5	<8
	SWR	<1,3	<1,3	<1,3	<1,3
	Weight, kg	5,4	5,5	6,4	6,5