

Horwin CB8-V/Ux-x series is low insertion loss combiners with ferrite isolators used for combining several transmitters into one antenna with up to 125 kHz (VHF) and 200 kHz (UHF) frequency spacing. Combiners are configured in sets of 2, 3 or 4 channels.

There are two model versions – single or dual ferrite isolators depending on the required Tx–Tx isolation. Nominal impedance is 50 Ohms with typical input SWR <1.5.

Mounting option is specified by customer (e.g. "free standing", vertically or horizontally into EIA 19" etc). N-type "female" connectors are used for input/output connections.

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



CB8-V2-1 CB8-V2-2 CB8-V3-1 CB8-V3-2 CB8-V4-1 CB8-V4-2

CB8 x x x	8" Cavity Combiner frequency range (V=VHF) Tx Channels isolator type (1=single, 2=dual)	2 channels VHF combiner	2 channels VHF combiner	3 channels VHF combiner	3 channels VHF combiner	4 channels VHF combiner	4 channels VHF combiner
	Isolator	single	dual	single	dual	single	dual
	Frequency range, MHz	144 – 174	144 – 174	144 – 174	144 – 174	144 – 174	144 – 174
	Max. input power, W	50	50	50	50	50	50
	Spacing Tx–Tx, kHz	>125	>125	>125	>125	>125	>125
	Isolation Tx–Tx, dB	>60	>80	>60	>80	>60	>80
	Insertion losses, dB @ Tx–Tx spacing kHz	2,2@150	2,7@150	2,7@150	3,2@150	3,2@150	3,7@150
	Dimensions (H-W-D, aprox.), mm	850x420x210	850x420x210	850x630x210	850x630x210	850x420x420	850x420x420
	Weight, kg	7,8	8,5	11,5	12,2	16,1	17

CB8-U2-1 CB8-U2-2 CB8-U3-1 CB8-U3-2 CB8-U4-1 CB8-U4-2

CB8 x x x	8" Cavity Combiner frequency range (U=UHF) Tx Channels isolator type (1=single, 2=dual)	2 channels UHF combiner	2 channels UHF combiner	3 channels UHF combiner	3 channels UHF combiner	4 channels UHF combiner	4 channels UHF combiner
	Isolator	single	dual	single	dual	single	dual
	Frequency range, MHz	400 – 470	400 – 470	400 – 470	400 – 470	400 – 470	400 – 470
	Max. input power, W	50	50	50	50	50	50
	Spacing Tx–Tx, kHz	>200	>200	>200	>200	>200	>200
	Isolation Tx–Tx, dB	>60	>80	>60	>80	>60	>80
	Insertion losses, dB @ Tx–Tx spacing kHz	2,3@450	2,8@450	2,8@450	3,3@450	3,3@450	3,8@450
	Dimensions (H-W-D, aprox.), mm	400x420x210	400x420x210	400x630x210	400x630x210	400x420x420	400x420x420
	Weight, kg	5	5,7	7.2	8	13	14