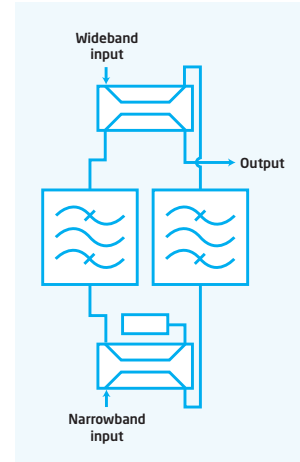
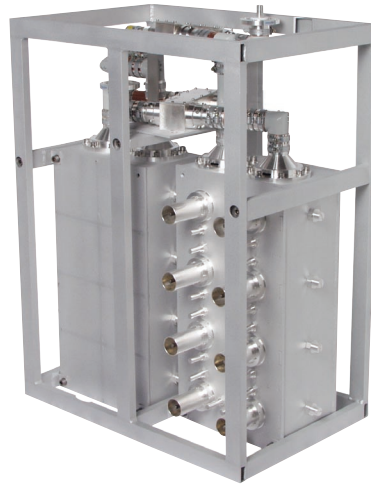


# UHF Constant Impedance Combiner

3.4 kW rms, 8 Pole

BAND IV-V

10 year GUARANTEE



## PRODUCT FEATURES

- Available with cross-coupling
- Suitable for adjacent channels
- Possible critical mask compliant (depending on tx & tuning)
- Temperature compensated
- Retunable
- Adjustable bandwidth for 6, 7 or 8 MHz
- 10-year comprehensive warranty

## PRODUCT PROFILE

This constant impedance combiner is exceptionally small in relation to output power, and can be conveniently mounted in a 19" rack. The combiner is built using Exir Broadcasting's space-saving filters designed for greater convenience. It can be tuned to 6, 7 or 8 MHz bandwidth, and offers leading edge performance for multi-channel systems by combining the best elements from various technologies. In addition, the eight Pole make this combiner an ideal choice for use with adjacent channels.

Data in table is typical according to a standard tuned 8 MHz channel bandwidth. The combiner can be tuned for other specifications or bandwidths, please contact us for a specification designed for your requirements.

All average power values and technical data refer to an ambient temperature of +20-25 °C with normal air flow. The product will have a maximum surface temperature of +60 °C. Maximum power capacity may be lower depending on channel allocation. The maximum output power is specified at 600 MHz.

ARTICLE	COM4-8BPF-AA00	COM4-8BPF-AB00
FREQUENCY	470 - 860 MHz	470 - 860 MHz
IMPEDANCE	50 Ohm	50 Ohm

NARROWBAND INPUT			
MAX INPUT POWER	3.4 kW rms	3.4 kW rms	
INPUT VSWR	<1.1 (>26 dB)	<1.1 (>26 dB)	
INPUT CONNECTOR	1 5/8" unflange	1 5/8" unflange	

### INSERTION LOSS - COMMON FOR ALL

	No cross-coupling	Single cross-coupling	Double cross-coupling
Centre frequency	<0.6 dB	<0.55 dB	<0.55 dB
±3.8 MHz	<1.7 dB	<1.7 dB	<1.8 dB
±4.2 MHz	>7.5 dB	>14 dB	>16 dB
±6.0 MHz	>43 dB	>34 dB	>52 dB
±12.0 MHz	>95 dB	>70 dB	>60 dB

WIDEBAND INPUT			
INPUT VSWR	<1.05 (>32 dB), 2 specified channels	<1.05 (>32 dB), 2 specified channels	
INPUT CONNECTOR	1 5/8" unflange	3 1/8" unflange	
INSERTION LOSS			
±24 MHz	<0.05 dB	<0.05 dB	
±16 MHz	<0.05 dB	<0.05 dB	
±8 MHz	<0.1 dB	<0.1 dB	

ISOLATION AND CHANNEL SPACING			
NARROWBAND - WIDEBAND		>36 dB	>36 dB
WIDEBAND - NARROWBAND			
±8 MHz from narrowband Cf	>70 dB	>70 dB	
±24 MHz from narrowband Cf	>80 dB	>80 dB	
MINIMUM CHANNEL SPACING		Adjacent channel	Adjacent channel

OUTPUT			
MAXIMUM OUTPUT POWER	6 kW rms	15 kW rms	
OUTPUT CONNECTOR	1 5/8" unflange	3 1/8" unflange	

DIMENSIONS AND WEIGHT			
DIMENSIONS			
L x W x H	676 x 445 x 895 mm (26.6 x 17.5 x 35.3 in)	676 x 445 x 895 mm (26.6 x 17.5 x 35.3 in)	
WEIGHT	~110 kg (~242.5 lb)	~110 kg (~242.5 lb)	