

UHF Constant Impedance Combiner

3.4 kW rms, 6 Pole

BAND IV-V

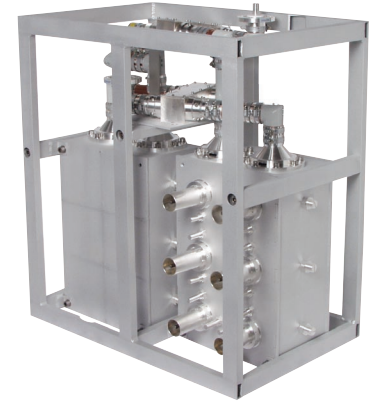
10 year GUARANTEE

PRODUCT FEATURES

- Available with cross-coupling
- Flexible modular design
- Extremely stable
- High isolation
- Low insertion loss
- 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 Broadcastings 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.



ARTICLE	COM4-6BPF-AK00	COM4-6BPF-AL00
FREQUENCY	470 - 860 MHz	470 - 860 MHz
IMPEDANCE	50 Ohm	50 Ohm

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.

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

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.

INSERTION LOSS - COMMON FOR ALL

	No cross-coupling	Single cross-coupling	Double cross-coupling
Centre frequency	<0.4 dB	<0.4 dB	<0.35 dB
±3.8 MHz	<0.8 dB	<1.1 dB	<1.7 dB
±4.2 MHz	>2.0 dB	>6.0 dB	>15 dB
±6.0 MHz	>24 dB	>22 dB	>30 dB
±12.0 MHz	>64 dB	>42 dB	>32 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 - COMMON FOR ALL

	No cross-coupling	Single cross-coupling	Double cross-coupling
NARROWBAND - WIDEBAND	>36 dB		
WIDEBAND - NARROWBAND			
±8 MHz from narrowband Cf	>60 dB	>55 dB	>50 dB
±24 MHz from narrowband Cf	>80 dB	>70 dB	>60 dB
MINIMUM CHANNEL SPACING	1 free channel	Adjacent	Adjacent

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 750 mm (26.6 x 17.5 x 29.5 in)	676 x 445 x 750 mm (26.6 x 17.5 x 29.5 in)
WEIGHT	~90 kg (~198 lb)	~90 kg (~198 lb)