

VHF Constant Impedance Combiner

8 kW rms, 6 Pole



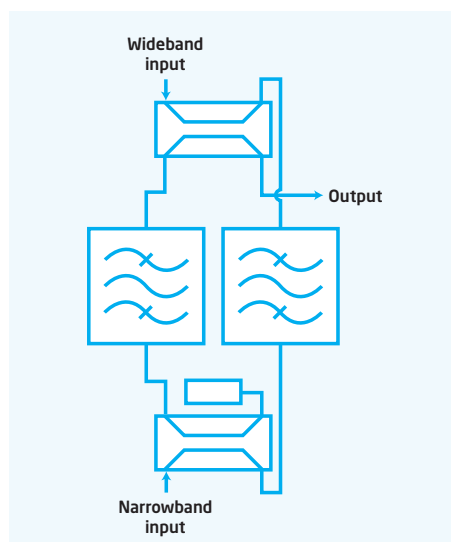
PRODUCT FEATURES

- Available with cross-coupling
- Flexible modular design
- Extremely stable
- Low insertion loss
- Temperature compensated
- Retunable
- 10-year comprehensive warranty



PRODUCT PROFILE

This constant impedance combiner is built using Exir Broadcasting's high performance, 4 kW bandpass filters, which provide exceptionally sharp filtering and contribute to the combiner's extremely stable operation. The combiner can be tuned to 6, 7 or 8 MHz bandwidth, and offers leading edge performance for multi-channel systems.



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.

ARTICLE	COM3-6BPF-AN00
FREQUENCY	174 - 240 MHz
IMPEDANCE	50 Ohm

NARROWBAND INPUT		
MAX INPUT POWER	8 kW rms	
INPUT VSWR	<1.1 (>26 dB)	
INPUT CONNECTOR	3 1/8" unflange	
INSERTION LOSS	No Cross-coupling	Single cross-coupling
Centre frequency	<0.15 dB	<0.2 dB
±3.8 MHz	<0.35 dB	<0.9 dB
±4.2 MHz	>1.5 dB	>5.5 dB
±6.0MHz	>24 dB	>17 dB
±12.0 MHz	>63 dB	>27 dB

WIDEBAND INPUT	
INPUT VSWR	<1.05 (>32 dB), 2 specified channels
INPUT CONNECTOR	3 1/8" unflange
INSERTION LOSS	
±24 MHz	0.05 dB
±16 MHz	0.05 dB
±8 MHz	0.11 dB

ISOLATION AND CHANNEL SPACING		
NARROWBAND - WIDEBAND		
>36 dB		
WIDEBAND - NARROWBAND		
±8 MHz from narrowband Cf	>60 dB	>50 dB
±24 MHz from narrowband Cf	>80 dB	>60 dB
MINIMUM CHANNEL SPACING	1 free channel	Adjacent

OUTPUT	
MAXIMUM OUTPUT POWER	30 kW rms
OUTPUT CONNECTOR	3 1/8" unflange

DIMENSIONS AND WEIGHT	
DIMENSIONS	800 x 530 x 1564 mm
L x W x H	(31.5 x 20.9 x 61.6 in)
WEIGHT	~190 kg (~419 lb)