

# UHF Constant Impedance Combiner

## 5 kW rms, 6 Cavities

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 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. In addition, the six cavities and cross-coupling make this combiner an ideal choice for use with adjacent channels.



ARTICLE	COM4-6BPF-AH00	COM4-6BPF-AI00	COM4-6BPF-AC00 / COM4-6BPF-AC01
<b>FREQUENCY</b>	470 - 860 MHz	470 - 860 MHz	470 - 860 MHz
<b>IMPEDANCE</b>	50 Ohm	50 Ohm	50 Ohm

NARROWBAND INPUT					
<b>MAX INPUT POWER</b>	5 kW rms at max frequency		5 kW rms at max frequency		
<b>INPUT VSWR</b>	<1.1 (>26 dB)		<1.1 (>26 dB)		
<b>INPUT CONNECTOR</b>	RL98 unflanged		3 1/8" unflanged		
<b>INSERTION LOSS</b>	<b>No cross-coupling</b>	<b>No cross-coupling</b>	<b>No cross-coupling</b>	<b>Cross-coupling single</b>	<b>Cross-coupling double</b>
Centre frequency	<0.35 dB	<0.35 dB	<0.35 dB	<0.35 dB	<0.35 dB
±3.8 MHz	<0.65 dB	<0.65 dB	<0.65 dB	<1.0 dB	<1.4 dB
±4.2 MHz	>2 dB	>2 dB	>2 dB	>6 dB	>15 dB
±6.0 MHz	>24 dB	>24 dB	>24 dB	>22 dB	>30 dB
±12.0 MHz	<64 dB	<64 dB	<64 dB	<44 dB	<32 dB

WIDEBAND INPUT			
<b>INPUT VSWR</b>	<1.05 (>32 dB), 2 specified channels	<1.05 (>32 dB), 2 specified channels	<1.05 (>32 dB), 2 specified channels
<b>INPUT CONNECTOR</b>	RL98 unflanged	3 1/8" unflanged	3 1/8" unflanged
<b>INSERTION LOSS</b>			
±24 MHz	<0.05 dB	<0.05 dB	<0.05 dB
±16 MHz	<0.05 dB	<0.05 dB	<0.05 dB
±8 MHz	<0.1 dB	<0.1 dB	<0.1 dB

ISOLATION					
<b>NARROWBAND - WIDEBAND</b>	>36 dB	>36 dB	>36 dB		
<b>WIDEBAND - NARROWBAND</b>					
±8 MHz from narrowband Cf	<60 dB	<60 dB	<60 dB	<55 dB	<50 dB
±24 MHz from narrowband Cf	<80 dB	<80 dB	<80 dB	<70 dB	<60 dB

<b>MINIMUM CHANNEL SPACING</b>	1 free channel	1 free channel	1 free channel	Adjacent	Adjacent
<b>MAXIMUM OUTPUT POWER</b>	30 kW rms	12 kW rms	12 kW rms / 30 kW rms		
<b>OUTPUT CONNECTOR</b>	RL98 unflanged	3 1/8" unflanged	3 1/8" unflanged / RL98 unflanged, NAX 120		
<b>DIMENSIONS</b>	746 x 1576 x 500 mm (29 x 62 x 20 in)	810 x 760 x 980 mm (32 x 30 x 39 in)	716 x 595 x 1000 mm (28.2 x 23.4 x 39.4 in)		
<b>WEIGHT</b>	120 kg (265 lb)	115 kg (254 lb)	115 kg (254 lb)		