

FM Constant Impedance Combiner

46 kW, 3 Pole

BAND II

10 year GUARANTEE

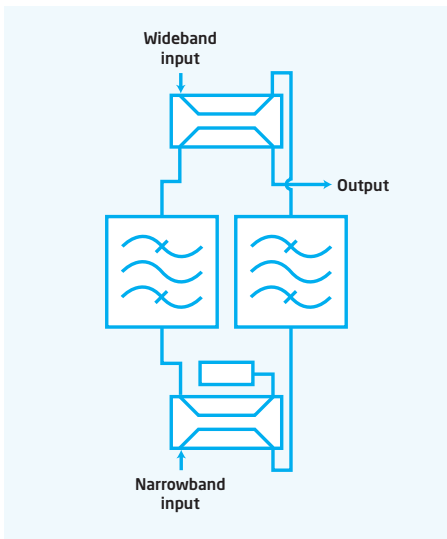


PRODUCT FEATURES

- Flexible design
- Low insertion loss
- Retunable 87-108 MHz
- Temperature compensated
- 10-year comprehensive warranty

PRODUCT PROFILE

These balanced FM combiners employing broadband hybrids and FM tunable filters enable the combining of FM transmitters up to 60 kW. Dry reject loads and a stackable frame design that allows broadcasters to make the best use of available floor space produce systems of world-beating flexibility and value.



Data in tables is typical. 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 °C with normal air flow. The product will have a maximum surface temperature of +70 °C. Maximum power capacity may be lower depending on channel allocation.

ARTICLE	COM2-3BPF-AN00	
FREQUENCY	87 - 108 MHz	87 - 108 MHz
IMPEDANCE	50 Ohm	50 Ohm

NARROWBAND INPUT		
MAXIMUM INPUT POWER	46 kW	28 kW
INPUT VSWR	<1.07 (>30 dB)	<1.07 (>30 dB)
STANDARD INPUT CONNECTOR	3 1/8" unflange	3 1/8" unflange
OPTIONAL INPUT CONNECTOR	4 1/2" unflange	4 1/2" unflange
INSERTION LOSS		
Centre frequency	<0.16 dB	<0.23 dB
±200 kHz	<0.16 dB	<0.25 dB

WIDEBAND INPUT		
INPUT VSWR	<1.07 (>30 dB)	<1.07 (>30 dB)
STANDARD INPUT CONNECTOR	3 1/8" unflange	3 1/8" unflange
OPTIONAL INPUT CONNECTOR	4 1/2" unflange	4 1/2" unflange
INSERTION LOSS		
±1.0 MHz	<0.55 dB	<0.15 dB
±1.5 MHz	<0.15 dB	<0.07 dB
±3.0 MHz	<0.05 dB	<0.05 dB

ISOLATION AND CHANNEL SPACING		
NARROWBAND - WIDEBAND	>36 dB	>36 dB
WIDEBAND - NARROWBAND		
±1.0 MHz from narrowband Cf	>45 dB	>55 dB
±1.5 MHz from narrowband Cf	>55 dB	>65 dB
±3.0 MHz from narrowband Cf	>74 dB	>84 dB
MIN CHANNEL SPACING		
Lower spacing on request	1.5 MHz	1.0 MHz

OUTPUT		
MAXIMUM OUTPUT POWER	60 kW rms	60 kW rms
STANDARD OUTPUT CONNECTOR	3 1/8" unflange	3 1/8" unflange
OPTIONAL OUTPUT CONNECTOR	4 1/2" unflange	4 1/2" unflange

DIMENSIONS AND WEIGHT		
DIMENSIONS		
L x W x H	965 x 1155 x 970 mm (38 x 45.5 x 38.2 in)	965 x 1155 x 970 mm (38 x 45.5 x 38.2 in)
WEIGHT		
	~300 kg (660 lb)	~300 kg (660 lb)
	Standard tuned	Sharp tuned