

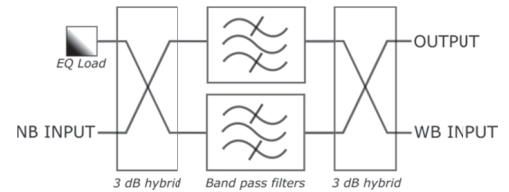
FM 2/3/4 poles CIB combiner • ≤ 12 kW NB

**Electrical Specifications**

Order of the bandpass filters	2	3	4
Frequency range	87.5-108 MHz		
Type	Constant impedance		
Impedance	50 Ohm		
Recommended minimum freq. spacing <sup>(1)</sup>	1.2 MHz	0.9 MHz	0.7 MHz
Max. power handling (NB/WB/Output)	DP12-430 12/40/40 kW DP12-460 12/70/70 kW		
Input connectors (NB/WB)	DP12-430 1 5/8" unfl. / 3 1/8" unfl. DP12-460 1 5/8" unfl. / 4 1/2" unfl.		
Output connector	DP12-430 3 1/8" unfl. DP12-460 4 1/2" unfl.		
VSWR	Narrowband input	≤ 1.05:1 at carrier f <sub>c</sub>	
	Wideband input	≤ 1.10:1	
Insertion loss	Narrowband input	≤ 0.20dB (f <sub>c</sub> )	≤ 0.26dB (f <sub>c</sub> ) ≤ 0.32dB (f <sub>c</sub> )
	Wideband input	≤ 0.1 dB	
Isolation	NB input to WB input	≥ 40 dB	
	WB input to NB input	≥ 50 dB	
Group delay at f <sub>c</sub> ± 150 kHz	≤ 50 ns	≤ 80 ns	≤ 100 ns
Thermoswitch at EQ load	Yes		


**Mechanical & Environmental Specifications**

Dimensions DP12-430 (W x D x H)	1052 x 985 x 1520 mm	1052 x 1445 x 1520 mm	1052 x 1905 x 1520 mm
Dimensions DP12-460 (W x D x H)	1052 x 985 x 1520 mm	1052 x 1445 x 1520 mm	1052 x 1905 x 1520 mm
Temperature range	-10°C to +50°C		
Working position	Any		


**Optional Accessories**

Bandpass filter on wideband input <sup>(2)</sup>	1 5/8"	3 1/8"	4 1/2"
Directional couplers at inputs and outputs (see page 150)	AC12-158	AC12-318	AC12-412
Unflanged to flanged adapters (see page 149)	TR22-123	TR24-125	TR30-131
Rack mounted	✓		

**The combiner can be field retuned to any frequency within specified band**
**NOTES:**

(1): Each model can achieve a narrower channel spacing than the one specified, by sacrificing the transmission response figures. 0.5 MHz spacing available with 4<sup>th</sup> order and inter-cavity feedback.

(2): The use of an extra filter connected to the wideband input enhances the isolation between inputs, thus reducing the possible generation of inter-mod products.