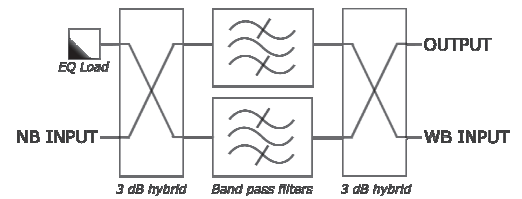


FM 2/3/4 poles CIB combiner • ≤ 10 kW NB

**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>	1.4 MHz	1.1 MHz	0.8 MHz
Max. power handling (NB/WB/Output)	10/12/12 kW		
DP12-A30	10/30/30 kW		
DP12-A40			
Input connectors (NB/WB)	1 5/8" Unfl. / 1 5/8" Unfl.		
DP12-A30	1 5/8" Unfl. / 3 1/8" Unfl.		
DP12-A40			
Output connector	1 5/8" Unfl.		
DP12-A30	3 1/8" Unfl.		
DP12-A40			
VSWR	Narrowband input	≤ 1.05:1 at carrier fc	
	Wideband input	≤ 1.10:1	
Insertion loss	Narrowband input	≤ 0.30dB(fc)	≤ 0.45dB (fc)
	Wideband input	≤ 0.1 dB	
Isolation	NB input to WB input	≥ 40 dB	
	WB input to NB input	≥ 50 dB	
Group delay at fc ± 150 kHz	≤ 80 ns	≤ 100 ns	≤ 120 ns
Thermoswitch at EQ load	Yes		



**Mechanical & Environmental Specifications**

Dimensions DP12-A30 (W x D x H)	735 x 695 x 1780 mm	920 x 1034 x 1425 mm	920 x 1360 x 1425 mm
Dimensions DP12-A40 (W x D x H)	755 x 800 x 1930 mm	920 x 1034 x 1550 mm	920 x 1360 x 1550 mm
Temperature range	-10°C to +50°C		

**Optional Accessories**

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

**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. 0.6 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.