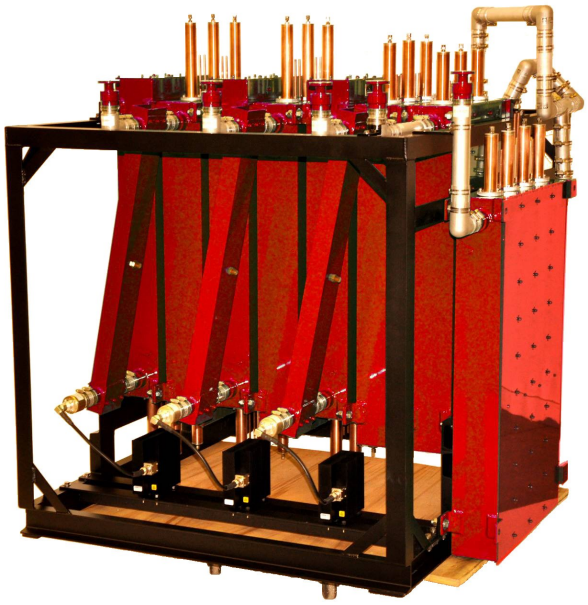
PCUBE inc

MEDIUM / HIGH POWER MULTI-STATION COMBINER



FEATURES

- **Light-weight aluminum construction**
- **Temperature-compensated resonators**
- **Also available in 4-section versions**
- **Cross-coupled and non-cross-coupled**
- **Constant impedance versions also available**
- **Ideal for use in combiners**
- **Field-tunable**

MULTI-STATION COMBINER

This combination of P-Cube Constant Impedance Combiner modules and Bandpass Filters is a cost-effective way to combine FM stations with both close and wide frequency spacing requirements. For closely spaced frequencies (less than 1 MHz), the constant impedance design provides the best isolation, and for spacing greater than 1.6 MHz, a bandpass module can be added to an existing constant impedance module.

The image above is a 3-station Constant Impedance Filter and a 2-station branch combiner, cost-effectively combining 5 FM frequencies. This is an example of an actual system built for a customer.

P-Cube will work with you to create a custom solution for you and your site. We also offer medium– and high-power solutions. Call for details.

Typical response for 5-CH FM Combiner

INPUT VSWR:	1.08 : 1 over Fc +/- 200 kHz
GROUP DELAY:	< 100 nsec +/- 200 kHz
INSERTION LOSS: 2 kW 5 kW 10 kW 20 kW	 0.5 dB typ. over Fc +/- 200 kHz 0.4 dB typ. over Fc +/- 200 kHz 0.3 dB typ. over Fc +/- 200 kHz 0.3 dB typ. over Fc +/- 200 kH
ATTENUATION	5 dB at Fc +/- 500 kHz
CONNECTORS 2 kW 5 kW 10 kW 20 kW	 7-16 DIN, 7/8" , 1-5/8" 1-5/8" , 3-1/8" 1-5/8" , 3-1/8" 3-1/8" , 4-1/16"
DIMENSIONS 2 kW 5 kW 10 kW 20 kW	 Approx. 6" x 16" x 42-60" Approx. 10" x 21" x 42-60" Approx. 16" x 49" x 42-60" Approx. 20" x 61" x 42-60"
WEIGHT: 2 kW 5 kW 10 kW 20 kW	 Approx. 65 lbs. Approx. 120 lbs. Approx. 240 lbs. Approx. 400 lbs.

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