

**Product Line Discontinued, but may be available to special order**

- ◆ Connects 4 inputs to 4 outputs for neutral hosting of DAS
- ◆ Up to 30 dB Isolation, Low VSWR
- ◆ Low Specified PIM
- ◆ Low and High Wireless Bands
- ◆ High Average Power Rating ◆ RoHS compliant



The 4x4 Hybrid is a matrix of four 3 dB Hybrid Couplers arranged so that signals applied to any of the four inputs will be split equally between the four outputs. This allows simple combining of multiple signals in the same wireless band to a common feeder cable, as might be required in a neutral host in-building distributed antenna system. Unused ports must be terminated externally in 50Ω.

Special attention has been directed in these versions to maximize isolation in the wireless bands and minimize passive intermodulation (PIM). Units may be moisture sealed for outside applications to meet IP67. All have connectors spaced for controlled wrench tightening of connectors. (01/13)

Impedance: 50Ω nominal  
Environment: 0° to +50°C, IP64 (IP67 to order)  
PIM, Intermod: <-150 dBc\* (two 20W tones)  
Enclosure Finish: Passivated Al.  
Connector Finish: Triplate  
Standoffs 7-16: Standard  
N: To special order  
\*PIM <-160 dBc to special order

| Model Number | N conn | 7-16 mm | Frequency Range, MHz           | Coupling dB | Input Isolation  | Input VSWR | Power per Input Avg. | Peak | Weight lbs. (kg) |
|--------------|--------|---------|--------------------------------|-------------|------------------|------------|----------------------|------|------------------|
| CM-34N       | CM-34D |         | 800 - 960                      | 6.2 ± 0.5   | >30 dB           | <1.15:1    | 100W                 | 3kW  | 2.2 (1.0)        |
| CM-44N       | none   |         | 800 - 2,170                    | 6.2 ± 0.5   | >25 dB           | <1.20:1    | 60W                  | 3kW  | 2.4 (1.1)        |
| CM-54N       | CM-54D |         | 1,800 - 1,990<br>1,710 - 2,170 | 6.2 ± 0.5   | >30 dB<br>>25 dB | <1.15:1    | 100W                 | 3kW  | 2.2 (1.0)        |

**CM-34/54N or D Outline CM-44N Outline**

