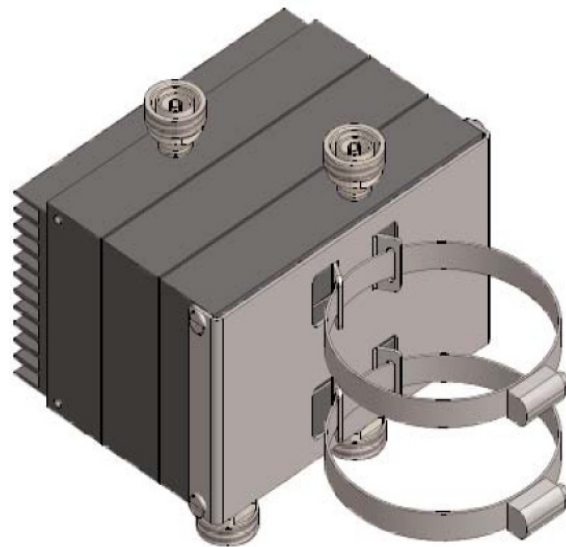


- ◆ Dual Hybrid-Load Combiners
- ◆ Weathersealed Design, IP67
- ◆ Low PIM Performance using Cable Load
- ◆ High Isolation, Low VSWR and Loss
- ◆ 160 W Total Average Power Rating
- ◆ High Reliability, RoHS compliant



**Pole Mounting Bracket Assembly  
(Optional)**

The CU-84 is based on packaging two CT-84 assemblies of broadband, high isolation Hybrid Couplers and low PIM cable loads using a single weatherproofed housing.

Each combiner combines two wireless carriers in the band to a single antenna feed or distribution cable with minimum intermodulation. The cable load terminates one hybrid output port in 50Ω and results in a 3 dB loss in each signal. Maximum power from the two inputs is 160W or 80W/input.

|                     |   |
|---------------------|---|
| Coupling Loss:      | 3 dB nominal                                      |
| Sensitivity:        | ±0.40 dB  |
| PIM Intermod:       | -161 dBc (tested at 1850 MHz with 2 +43dBm tones) |
| AISG/DC Continuity: | Input A/D, 2.0A max. per input                    |
| Impedance:          | 50Ω nominal                                       |
| Environment:        | -35°C to +75°C, IP67                              |
| Housing:            | Passivated aluminum                               |
| Connectors Finish:  | Triplate  |

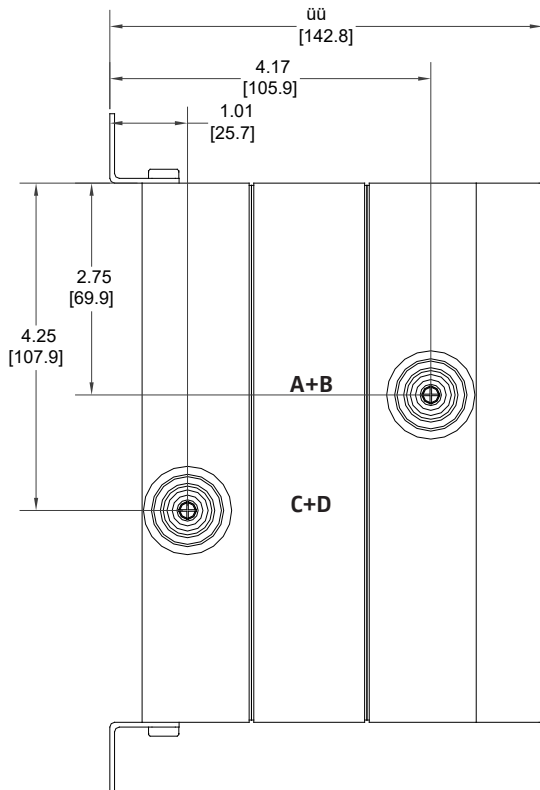
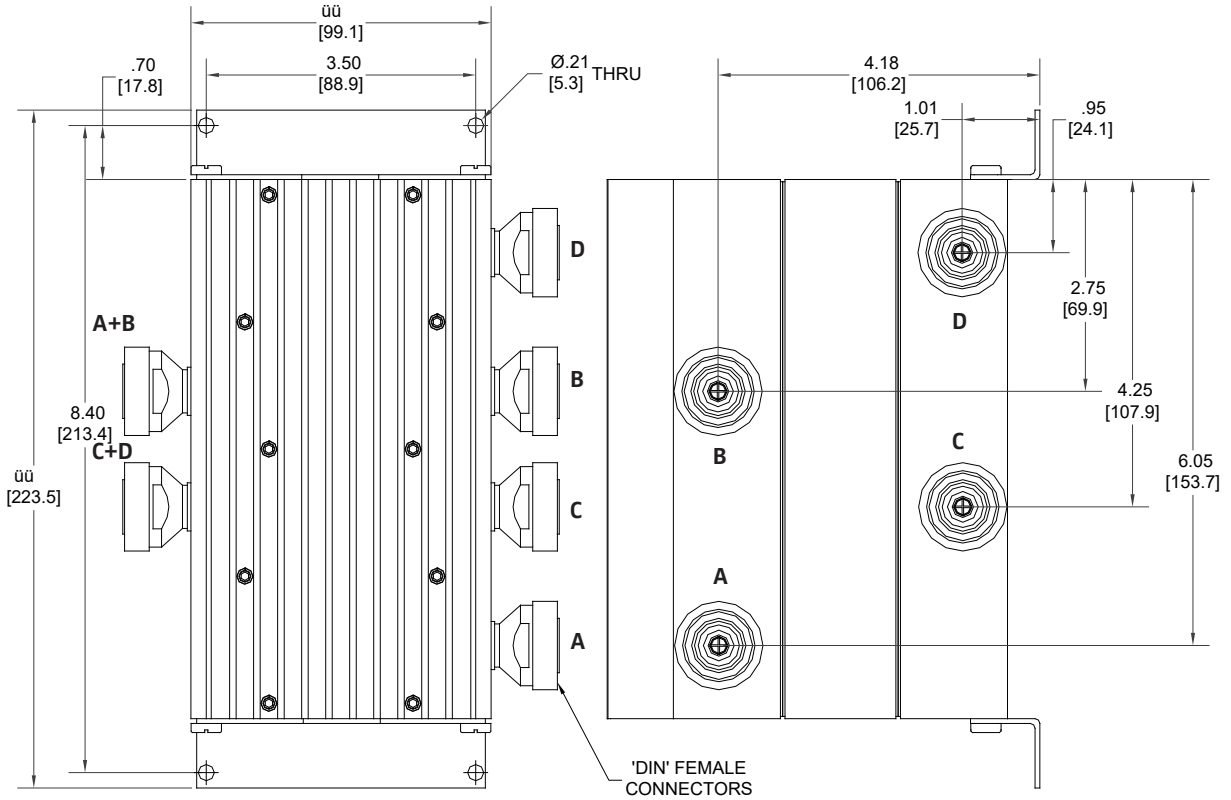
| Model Number  | Connectors | Frequency Range, MHz      | Input Isolation typical | Input Isolation minimum | VSWR Max | Dissipative Loss | Total Max. Avg.* | Power Peak | Weight lb (kg) nom. |
|---------------|------------|---------------------------|-------------------------|-------------------------|----------|------------------|------------------|------------|---------------------|
| <b>CU-84D</b> | 7-16 (f)   | 694 - 2170<br>2400 - 2700 | >30dB                   | >25dB                   | 1.2:1    | <0.2 dB          | 160W             | 3.0 kW     | 12.5 (5.7)          |
| <b>CU-84E</b> | 4.3-10 (f) | 694 - 2170<br>2400 - 2700 | >30dB                   | >25dB                   | 1.2:1    | <0.2 dB          | 160W             | 3.0 kW     | 12.5 (5.7)          |

Specification applies to each combiner load assembly      \*Derate -1.2%/°C above 55°C

**Note: Specifications are subject to change without prior notification.**

06JUN2016

## CU-84D Outline



**DC Paths**  
 Between D and (C+D)  
 Between A and (A+B)