

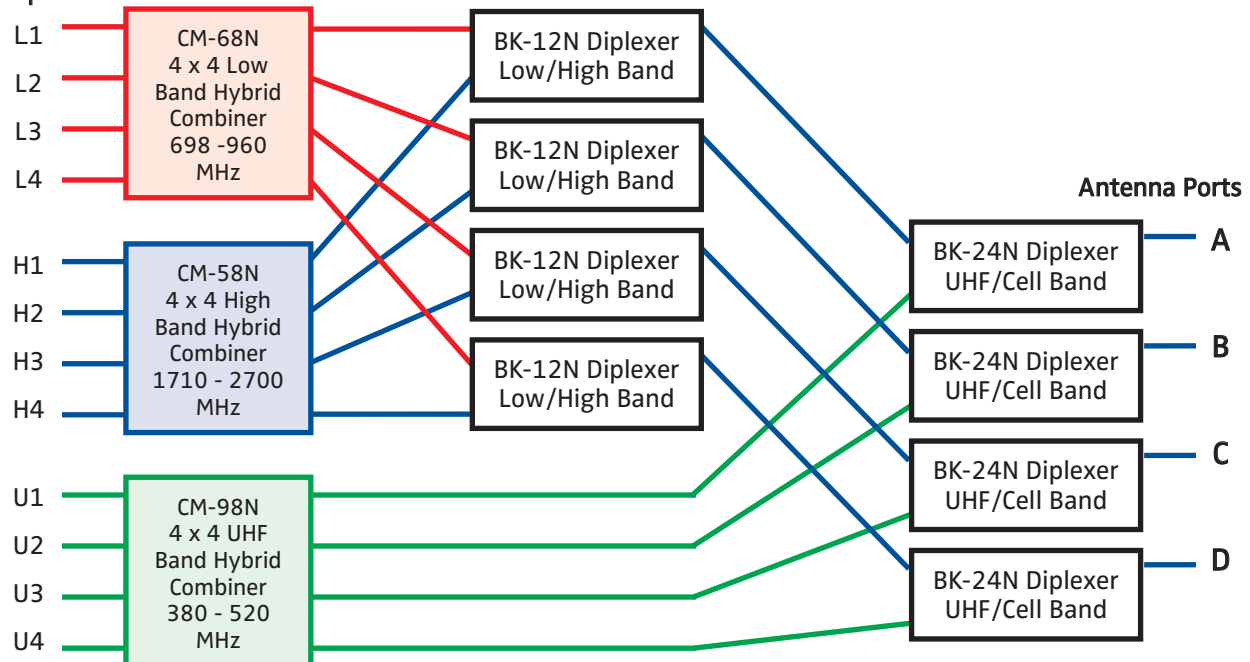
### Preliminary Data

- ◆ Input bands for PMR/Tetra, Cellular, WiFi, WiMAX & LTE: 380 to 2700 MHz
- ◆ 12 Inputs to 4 Combined Outputs
- ◆ Guaranteed PIM, and Low Loss
- ◆ High Reliability, RoHS
- ◆ Standard 4RU EIA Rack (7")



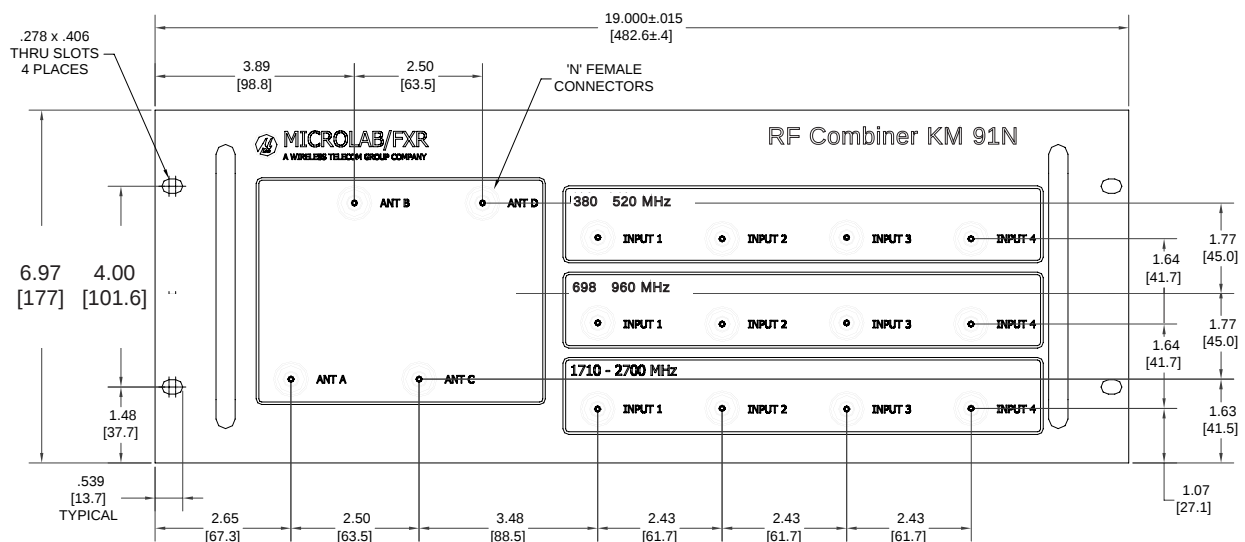
These broadband RF Combiner Boxes have been designed to meet the neutral host needs of in-building systems, with low passive intermodulation (PIM). The system combines up to 12 wireless carriers in three operating bands to 4 multiple antenna feeds or distribution cables. Through the use of three 4 x 4 hybrid networks and 8 diplexers, the total loss for each path is less than 1.5 dB, provided all four outputs are utilized. Typical isolation between inputs in the same band is 25 dB, between bands 58 dB. Input/output connectors have been separately grouped for convenience. (06/11-1)

### Inputs



|                     |                                              |
|---------------------|----------------------------------------------|
| Inputs T1 to T4:    | 380 - 520 MHz, Tetra Band                    |
| Inputs L1 to L4:    | 698 - 960 MHz, Low Band                      |
| Inputs H1 to H4:    | 1710 - 2700 MHz, High Band                   |
| Input Isolation:    | Within Band: >22 dB<br>Between Bands: >55 dB |
| Input Return Loss:  | >16 dB (>18 dB typical)                      |
| Outputs A, B, C, D: | 380 - 2700 MHz                               |
| Coupling (In-Out):  | 6.5 ± 1.0 dB (all paths)                     |
| Power per input:    |                                              |
| Tetra Band:         | <50W avg., 3 kW peak                         |
| Low Band:           | <50W avg., 3 kW peak                         |
| High Band:          | <50W avg., 3 kW peak                         |
| Total power in:     | <200W average                                |
| Impedance:          | 50Ω nominal                                  |
| Environment:        | -15°C to +65°C, Indoor                       |
| PIM (Intermod):     | <-142 dBc (+43dBm x2)                        |
| Finish: Housing:    | RoHS coated aluminum                         |
| Connectors:         | Triplate, N                                  |
| Weight:             | 33 lbs (15 kg) nominal                       |

### Front Panel Layout



Notes: Depth 17" (432 mm).