

DCC Series® - Preliminary Data

- ◆ Input bands for LTE-700, Cellular, WiFi, WiMAX-2600: 698 to 2700 MHz
- ◆ 24 Inputs to 2 Combined Outputs
- ◆ Guaranteed PIM, and Low Loss
- ◆ High Reliability, RoHS
- ◆ Standard 3RU and 2RU EIA Racks



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 24 wireless carriers in four operating bands to 2 multiple antenna feeds or distribution cables.

The system requires two KM-60N input combiners which feed a KM-61N output unit, see schematic.

Through the use of 2 x 2 and 3 x 3 hybrid networks and 18 diplexers, the total loss for each path has been minimized, the excess power being dissipated in 30W low PIM loads, mounted in the KM-60N. Unused inputs need to be terminated in 2W 50W loads.

Typical isolation between inputs in the same band is 25 dB, between bands 58 dB. Input/output connectors have been separately grouped for convenience. (08/12)

Inputs U1 to U6: 698 - 793 MHz, Low Band
 Inputs L1 to L6: 824 - 960 MHz, Low Band
 Inputs H1 to H6: 1710 - 2170 MHz, High Band
 Inputs S1 to S6: 2490 - 2700 MHz, High Band
 Input Isolation: Within Band: >20 dB
 Between Bands: >55 dB

Input Return Loss: >12 dB (>15 dB typical)
 Outputs A, B: 698 - 2700 MHz
 Coupling (In-Out): 10 ± 1 dB (all paths)
 Power per input: <30W avg., 3 kW peak
 Total power in: <300W 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, all 3 units: 77 lbs (35 kg) nominal



