

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



