

DCC Series® - Preliminary Data

- ◆ Input bands for LTE-700, GSM-850, WiFi, WiMAX-2600: 698 to 2700 MHz
- ◆ 24 Inputs to 4 Combined Outputs
- ◆ Guaranteed PIM, and Low Loss
- ◆ High Reliability, RoHS
- ◆ Standard 4RU 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 4 multiple antenna feeds or distribution cables. The system usually comprises two KM-63N combiners and one KM-64N output unit, see figure.

Through the use of 2 x 2 and 3 x 3 hybrid networks and 12 diplexers, the total loss for each path has been minimized, the excess power being dissipated in 30W low PIM loads, mounted in the KM-63N. Unused inputs need to be terminated in 2W 50W loads. (02/12)

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: KM-63N	55.0 lbs (25 kg) nominal
KM-64N	40.0 lbs (18.2 kg) nominal
System Wt. incl. cables:	95 lbs (43 kg) nominal



Inputs	Frequency Bands	Input Return Loss		Isolation within Band		Isolation between Bands	Coupling to All Outputs
		typ.	min.	typ.	min.		
U1 - U6	698 - 793 MHz	23 dB	18 dB	25 dB	20 dB	>60 dB	8.8 dB ± 1.5 dB.
L1 - L6	824 - 894 MHz	25 dB	18 dB	25 dB	20 dB	>60 dB	9.0 dB ± 1 dB.
H1 - H6	1710 - 2170 MHz	20 dB	15 dB	20 dB	18 dB	>60 dB	9.5 dB ± 1 dB.
S1 - S6	2490 - 2690 MHz	20 dB	15 dB	20 dB	17 dB	>60 dB	9.8 dB ± 1 dB..

