

DCC Series™ - Preliminary Specification

- ◆ Interface 1900 band MIMO BTS Tx/Rx or 2 SISO BTS Tx/Rx ports with Simplex DAS
- ◆ Independently adjustable Tx and Rx levels
- ◆ Low PIM, High Isolation
- ◆ High Reliability, RoHS compliant
- ◆ Standard 2RU EIA Rack (3.5")



This DAS Carrier Conditioner, KM-55N, is designed to interface either a single MIMO or 2 SISO Tx/Rx signals in the 1900 MHz PCS frequency range, with a simplex MIMO or simplex SISO DAS system.

It allows independent level adjustment of the Tx and Rx elements of the wireless signal, once the signal is already split into Tx and Rx paths.

The unit first separates each of the Tx/Rx inputs into Tx and Rx paths using a duplexer in both Leg A and Leg B. Each of the Tx outputs are then attenuated by a fixed 15dB attenuator before being fed to a 0-30 dB level adjustment to set optimum DAS performance. Each DAS Rx signal is fed to the Rx port of the duplexers via a similar level adjustment.

If the system uses 2 SISO signals they may be combined with a supplied external jumper to feed a common DAS in both the Tx and Rx paths.

Similar systems can be supplied for other wireless bands, using appropriate duplexers. (01/13)

Frequency:	1930-1990 Tx/1850-1910 Rx
Return Loss:	>15 dB, all ports
Tx Power/input:	40W avg max., 3 kW max pk.
Tx Path, SISO:	>18 dB ¹ attenuation plus an adjustable 30 dB in 1 dB steps.
(with 15 dB pad)	
Rx Path, SISO:	3 dB ² min. attenuation plus an adjustable 30 dB in 1 dB steps.
PIM, typical:	<-153 dBc in Rx band at input using two +43dBm tones
Isolation P0 to P1:	
MIMO mode:	Isolated/Isolated
SISO mode:	>60/25 dB (0dB on all attenuators)
Impedance:	50Ω nominal
Environment:	0°C to +65°C, IP64
Housing:	2RU, Passivated aluminum
Connectors:	N(f), Triplate
Weight:	40 lbs. nom.
Notes:	
In MIMO Mode:	¹ >15dB Leg B ² 1.4dB typ. Leg B

Specifications subject to change

