

### DCC Series™ - Preliminary Specification

- ◆ Interface of up to 2 BTS with Tx/Rx ports and Low Power Simplex DAS system
- ◆ Independently adjustable Tx and Rx levels
- ◆ Guaranteed Low PIM, High Isolation
- ◆ High Reliability, RoHS compliant
- ◆ Standard 2RU EIA Rack (3.5")



This Active/Fiber DAS Interface Shelf, KM-54N, is designed to interface two Tx/Rx signals within the same 850 MHz frequency band, with a simplex DAS system. It allows independent level adjustment of the Tx and Rx elements of a wireless signal, when the signal is already split into Tx and Rx paths.

The unit first duplexes each of the Tx/Rx inputs, of which the Tx outputs are combined using a 2:1 Hybrid Combiner. The combined Tx signal is then attenuated by a fixed 15dB attenuator before it is fed to a 0-30 dB level adjustment for optimum DAS performance. With a 15 dB pad, the interface is rated for input Tx powers of up to 60W/input.

The DAS Rx signal is fed to a similar level adjustment, before being split into three, with 2 to the Duplexers and 2 Rx to location monitoring ports if required. (01/13)

Frequency, Tx/Rx: 869 - 894, Tx/824 - 849, Rx  
Return Loss: >15.6 dB, input ports  
Tx Power/input: 60W avg max., 3 kW max pk.  
(requires 15dB fixed pad)  
Tx Path: 18 dB min. attenuation plus an  
(with 15 dB pad) adjustable 30 dB in 1 dB steps.  
Rx Path: 6 dB min. attenuation plus an  
adjustable 30 dB in 1 dB steps.  
Tx Isolation:  
Tx/Rx To other Rx: >65 dB  
Tx1/Tx2 To other Tx >25 dB  
Rx1/Rx2 To other Rx >20 dB  
PIM, typical: <-153 dBc in Rx band at input  
using two +43dBm tones  
Impedance: 50Ω nominal  
Environment: 0°C to +55°C, IP64  
Housing: Passivated aluminum  
Connectors: N(f), Triplate, SMA (f) gold  
Weight: 40 lbs. nom.

*Specifications subject to change*

