

DCC Series® - Preliminary Data

- ◆ Interface of 4 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 3RU EIA Rack (5.25")



This DAS Carrier Conditioner, KM-53D is designed to interface four Tx/Rx signal blocks within the frequency band 800 - 960 MHz, 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 4:1 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. 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 six, with 4 to the Duplexers and 2 Rx to location monitoring ports. A similar unit with N input connectors is available as the KM-53N. (08/12-1)

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| Frequency: | Four blocks in 800 - 960 MHz |
| Return Loss: | >18 dB, all ports |
| Tx Power/input: | 60W avg max., 3 kW max pk. (requires 15dB fixed pad) |
| Tx Path: | 22 dB min. attenuation plus an adjustable 30 dB in 1 dB steps. |
| (with 15 dB pad) | |
| Rx Path: | 9 dB min. attenuation plus an adjustable 30 dB in 1 dB steps. |
| Tx Isolation: | |
| Tx/Rx | To other Tx/Rx: >65 dB |
| Tx1..Tx4 | To other Tx >25 dB |
| Rx1..Rx4 | To other Rx >20 dB |
| IMD, typical: | <-118 dBm in Rx band at input using two +43dBm tones |
| Impedance: | 50Ω nominal |
| Environment: | 0°C to +55°C, IP64 |
| Housing: | Passivated aluminum |
| Connectors: | 7-16(f), Triplate, SMA (f) gold |
| Weight: | 40 lbs. nom. |

Specifications subject to modification

