



Multiple BTS, DAS System Conditioner 800 - 960 MHz, 6dB

Preliminary Data

- Interface of 4 BTS with Tx/Rx ports and Low Power Simplex DAS system
- Independently adjustable Tx and Rx levels
- High Reliability, RoHS compliant
- **Guaranteed Low PIM, High Isolation**
- ♦ Standard 3RU EIA Rack (5.25")



This Signal Conditioner Shelf, 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 6dB 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 four, with 2 to the Duplexers and 2 Rx to location monitoring ports. A similar unit with N input connectors is available as the KM-53N. (08/11-1)

Frequency: Four blocks in 800 - 960 MHz

Return Loss: >18 dB, all ports

Tx Power: 60W average max./input

3 kW max. peak

Tx Path: 13 dB min. attenuation plus an

adjustable 30 dB in 1 dB steps.

Rx Path: 9 dB min. attenuation plus an

adjustable 30 dB in 1 dB steps.

Tx Isolation:

To other Tx/Rx: >65 dB Tx/Rx 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 40 lbs. nom.

