

Preliminary Data

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



This Signal Conditioner Shelf, suitable for any Tx/Rx signal falling in the 1710 - 2170 MHz frequency range with the appropriate duplexer, 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 combines the Tx and Tx/Rx signals of two BTS, using a 4:1 Hybrid Combiner. The unused ports are terminated in high power low PIM loads to ensure low PIM. The combined Tx signal is then attenuated by a fixed low PIM 20dB attenuator before it is fed to a 0-30 dB level adjustment for optimum DAS performance. Standard model is suitable for powers to +45 dBm/input, but with higher power low PIM loads and attenuators, powers can increase to +50 dBm/input.

The Rx signal is fed to a similar level adjustment, before being split into four, with 2 to the Duplexers and 2 Rx to monitoring ports. (07/11)

Frequency: 1710-2170 MHz with duplexer
Tx Power: +45 dBm max./input
(+50 dBm available option)
Tx Path: 30 dB min. attenuation plus an adjustable 30 dB in 1 dB steps.
Rx Path: 10 dB min. attenuation plus an adjustable 30 dB in 1 dB steps.
IMD, typical: <-118 dBm in Rx band at input using two +43dBm tones
Impedance: 50Ω nominal
Environment: -35°C to +65°C, IP64
Housing: Passivated aluminum
Connectors: 7-16(f), Triplate, SMA (f) gold

