

### Preliminary Data

- ◆ Interface of 4 Non Duplexed High Power BTS Tx and Low Power DAS Rx system
- ◆ Four Inputs to Single Combined Output
- ◆ 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 698 - 2700 MHz frequency range, is intended to allow 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 signal of up to four 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 straight to a similar level adjustment, before being split into four Rx outputs. (07/11)

Frequency: 698 - 2700 MHz  
Tx Power: +45 dBm max./input  
(+50 dBm available option)  
Tx Path Loss: 26 dB minimum plus an adjustable 30 dB in 1 dB steps.  
Rx Path Loss: 7 dB Minimum 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

#### BTS Inputs

