



VHC1KW Application Notes

The VHC1KW was designed as a 2-way high power combiner for VHF high band TV. This combiner requires that the input signal be of equal amplitude and phase for maximum power combining. Insertion loss is approximately 0.2 dB. This will vary according to quality of the loads and amplitude and phase balance. The combiner has a temperature monitor mounted near the resistor. Connections to the monitor are via a DB9 connector on the output side. In the event that the combiner base plate exceeds 70 deg C pin 5 of the DB9 connector will be pulled to ground referenced to pin 4. This signal can be used to shut down the transmitter.