Model **DR-82** is a Bias Tee type combiner. It is designed to combine or separate AC/DC power with TV/RF signal (5-1000 MHz). Models include: DR-82-2A (2 amp), DR-82-4A (4 amp); DR-82-4A-CB (circuit breaker). Add suffix “F” for fuse, or “CB for circuit breaker. Connectors and impedance can be specified for 50 ohms or 75 ohms systems.

- RF Bandwidth: 5-1000 MHz
- Low Passband Thru Loss (< 1dB)
- Good Passband Return Loss (>18 dB @ 1GHz typical)
- High Isolation between AC/DC and RF (>55dB)
- AC/DC Input includes Fuse or Circuit Breaker
- Safety feature: Option Fuse 2.5A or 4A “Fast Action” type
- Safety feature: Option Circuit breaker (4 amp) “slow blow” type, trip free, cannot be held closed against overload, will not recycle, and, push-button resettable
- Connectors: standard F type female, 75 ohms impedance
- Optional Impedance/Connectors: 50 ohms – SMA, BNC, N

**Figure 1: DR-82-4A**

### Model DR-82

- **RF and AC/DC Specifications**
  - **RF Bandwidth**: 5 to 1000 MHz
  - **RF ports Thru loss**: 0.75dB typical between ports 1 and 2
  - **RF port Return Loss**: >18 dB (5 to 1000 MHz)
  - **AC / RF Isolation**: 65 dB (5 to 750 MHz) 55 dB (750 to 1000 MHz)
  - **Maximum Voltage rating**: 250 V AC (sine wave, 50-60 Hz), or 28 V DC
  - **Current Rating**: 2.0 or 4.0 amps with Fast Action type option
  - **Circuit Breaker (fuse)**: 4 amperes, optional slow-blow type with push and hold reset button
  - **Dimension (in) / Weight**: 4.0 L x 2.0 W x 2.5 H / 0.5 lbs
  - **Temp range**: -20 to +40 °C
  - **Connectors/ Impedance**: F-type female / 75 ohms (Option: 50 ohms connectors SMA, BNC N)