

# P2110-EVB

## Evaluation Board for P2110 Powerharvester™ Receiver

---



### Description:

The P2110-EVB contains an evaluation board and antennas to test and develop with the P2110 Powerharvester Receiver. The P2110 converts RF energy (radio waves) into DC power and stores it in a capacitor to provide an intermittent, regulated voltage output.

### Items included:

- 1 – Evaluation Board for P2110 Powerharvester Receiver (see description on next page)
- 1 – 915 MHz PCB dipole antenna (see description below)
- 1 – 915 MHz PCB patch antenna (see description below)

Note – this kit needs to receive power from an RF source such as a transmitter or test equipment.

### Instructions:

1. Download the P2110 product datasheet from [www.powercastco.com/resources](http://www.powercastco.com/resources) to learn about the specific I/O and functions of the P2110.
2. Connect one of the antennas to the SMA connector (J1) on evaluation board, or connect J1 directly to RF test equipment. See datasheet for maximum input power.
3. Adjust switches S2, S3, and S4 to desired settings. See descriptions on next page.
4. Place evaluation board on flat surface and connect test meters as desired.
5. Turn on the source of RF energy (e.g. Powercast transmitter, test equipment, other transmitter)

### Support:

Website: <http://www.powercastco.com/resources/>  
Email: [contact@powercastco.com](mailto:contact@powercastco.com)  
Phone: +1 724-238-3700 (Eastern Time Zone – USA)

### Item Descriptions

#### 915 MHz PCB Dipole Antenna

This antenna is flat and has the RF connector located at the bottom of the antenna.

Type: omni-directional, vertically polarized  
Energy pattern: 360°  
Antenna gain: Linear gain = 1.25 (1.0 dBi)

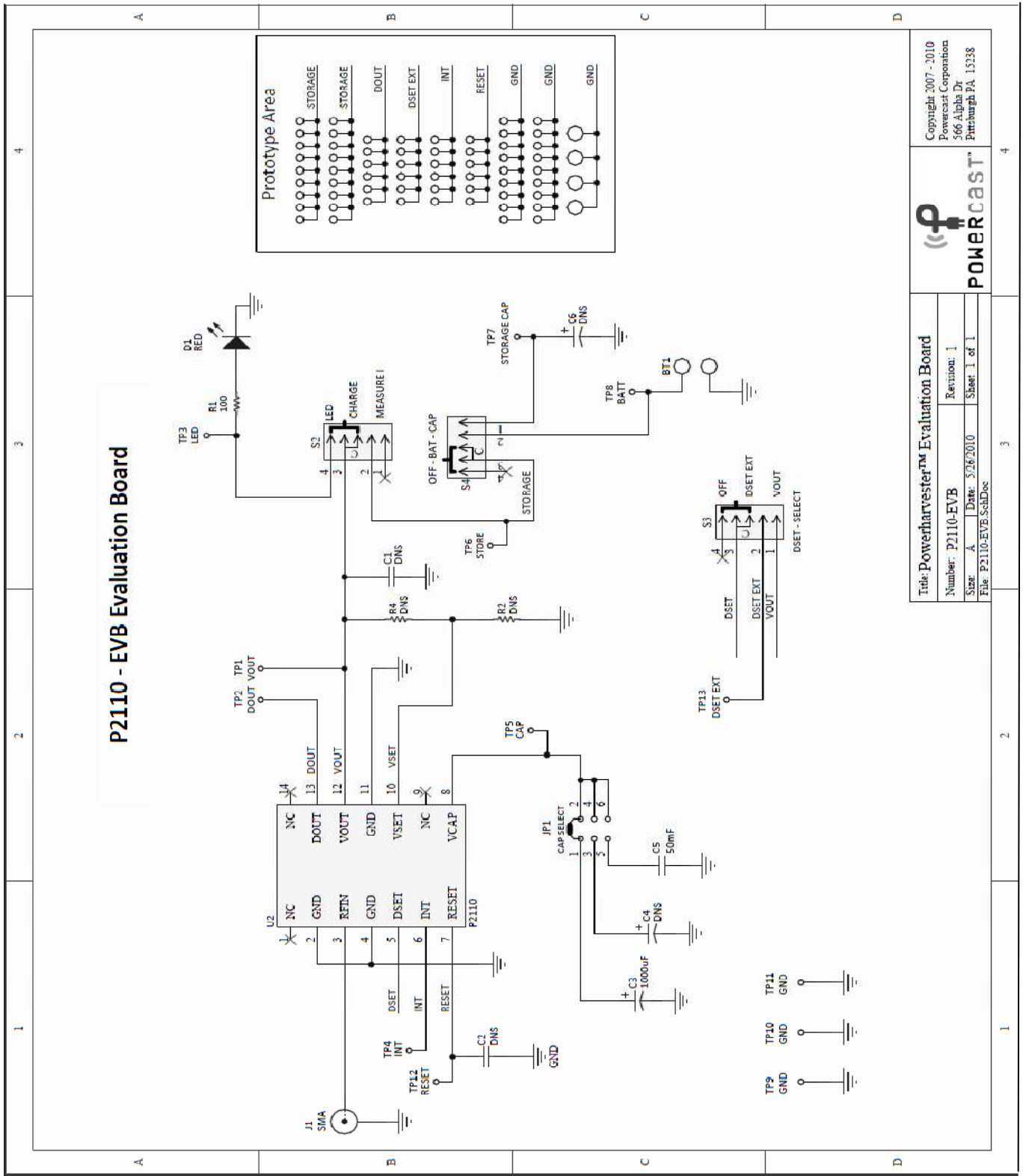
#### 915 MHz PCB Patch Antenna

This antenna has two layers and the RF connector located on the back of the antenna. The front side should be pointed toward the transmitter with the same polarization

Type: directional, vertically polarized  
Energy pattern: 122° (azimuth/horizontal), 68° (elevation/vertical)  
Antenna gain: Linear gain = 4.1 (6.1 dBi)

Page 2

P2110-EVB Electrical Schematic



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Powercast:](#)

[P2110-EVB](#)