

P1110-EVB

Evaluation Board for P1110 Powerharvester™ Receiver

Description:

The P1110-EVB contains an evaluation board and antennas to test and develop with the P1110 Powerharvester Receiver. The P1110 converts RF energy (radio waves) into DC power which can be stored in a battery or capacitor, or used to directly power a circuit.

Items included:

- 1 – Evaluation Board for P1110 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 P1110 product datasheet from www.powercastco.com/resources to learn about the specific I/O and functions of the P1110.
2. Connect one of the antennas to the SMA connector (J1) on the evaluation board, or connect J1 directly to RF test equipment. See datasheet for maximum input power.
3. Adjust switches S1, 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
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)

