

PCC110/PCC210

Powerharvester[®] Chipset



DESCRIPTION

The Powercast Powerharvester[®] Chipset includes the PCC110 RF to DC converter and the PCC210 Boost Converter. The Chipset is used in conjunction with numerous Powercast Reference Designs, including the P1110 and P2110 Powerharvester Modules. The PCC110 is designed to maximize RF to DC conversion efficiency, up to 75%, while supporting a wide range of input power levels, load voltages, and frequency bands. The PCC210 is designed to efficiently boost low input voltages and provide a regulated output voltage to a load device.

APPLICATIONS

- High-function RFID
 - Sensors
 - Displays
 - Microprocessors
- Battery-free wireless sensors
 - Industrial Monitoring
 - Smart Grid
 - Defense
 - Building Automation
 - Oil & Gas
 - Medical
- Recharging
 - Super capacitors
 - Coin cells
 - Thin-film cells
- Low power electronics
 - Devices that typically last for weeks, months, or years on a battery

CHIP MARKINGS

| | |
|--------|-----|
| PCC110 | F1X |
| PCC210 | P2X |



FEATURES (DESIGN DEPENDENT)

PCC110

- High conversion efficiency, up to 75%
- Converts low-level RF signals enabling long range applications
- Wide RF operating range: -17dBm to +20dBm
- Wide Frequency range: 100MHz to 6GHz
- Harvests from all modulation types
- Interoperable with numerous RF sources: Powercast TX91501 series transmitter, RFID readers, Wi-Fi routers, etc.
- SC-70 package
- RoHS compliant

PCC210

- High efficiency, up to 95%
- Operation down to 0.4V input
- Capable of 5.5V @ 50mA output
- Resistor settable output voltage
- SOT23-6 package
- RoHS compliant

ORDERING INFORMATION

Qualified high-volume customers can obtain the Powercast Reference Design best suited for their application by contacting Powercast and completing a questionnaire and a reference design confidentiality agreement:

<http://www.powercastco.com/contact/>

Powercast products, reference designs, and technology are covered by one or more of the following patents and other patents pending:

6,289,237 | 6,615,074 | 6,856,291 | 7,027,311 | 7,057,514 | 7,639,994 | 7,643,312 | 7,812,771
7,844,306 | 7,868,482 | 7,898,105 | 7,925,308 | 8,159,090 | 8,380,255 | 8,432,062 | 8,461,817

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