

15W Wireless Power Receiver 52-Pin DSBGA

Manufacturer: [Renesas Technology Corp](#)

Package/Case: WLCSP-52

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: NRND



Images are for reference only

[Inquiry](#)

General Description

The P9221-R is a highly-integrated, Qi-compliant wireless power receiver targeted for 15W applications. Using magnetic inductive charging technology, the receiver converts an AC power signal from a resonant tank into a regulated 9V or 12V DC output voltage. The integrated, low-RDS(ON) synchronous rectifier and ultra-low-dropout regulator offer high-efficiency, making the product ideal for battery-operated applications.

The receiver includes a 32-bit ARM Cortex®-M0 processor offering a high level of programmability. The device outputs proprietary alignment guide information for optimum coupling between the receiver and the transmitter, and features a programmable current limit. The innovative over-voltage protection scheme eliminates the need for additional capacitors generally required by other receivers, minimizing the external component count and cost. Together with the P9242-R transmitter, the P9221-R is a complete wireless power system solution for 15W applications. The P9221-R is available in a space-saving 2.64×3.94 mm 52-WLCSP package. It is rated for the -40°C to 85°C ambient operating temperature range.

Key Features

- Single-chip, 15W, wireless power receiver
- WPC 1.2.2 compliant
- Full synchronous rectifier with low resistance switches
- Embedded 32bit ARM® Cortex®-M0 processor
- Proprietary overvoltage protection eliminating external capacitors
- Low standby and operating mode power consumption
- Programmable current limit
- Supports I2C interface

Recommended For You

P9242-RNDGI8

Renesas Technology Corp
VFQFPN48

P9225-RAHGI8

Renesas Technology Corp
WLCSP-52

P9235A-RNDGI8

Renesas Technology Corp
QFN40

P9035-0NTGI

Renesas Technology Corp
TQFN48

P9036-0NTGI

Renesas Technology Corp
QFN48

P9028AC-0NBGI

Renesas Technology Corp
QFN32

P9261-3CNLG2

Renesas Technology Corp
QFN

P9235A-RBNDGI

Renesas Technology Corp
VFQFPN-40

P9418-0AWQI8

Renesas Technology Corp
70-XFBGA

P9260-0NLG28

Renesas Technology Corp
BGA

P9030-0NTGI8

Renesas Technology Corp
QFN

P9241-GNDGI

Renesas Technology Corp
VFQFPN

P9243-GBNDGI

Renesas Technology Corp
VQFN48

P9038-RNDGI

Renesas Technology Corp
QFN56

P9261-3CNLG28

Renesas Technology Corp
QFN28