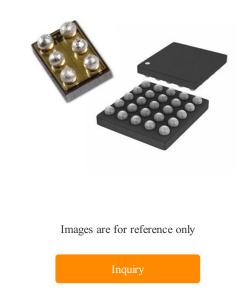


15W Wireless Power Receiver 52-Pin DSBGA

Manufacturer:	Renesas Technology Corp
Package/Case:	WLCSP-52
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free W
Lifecycle:	NRND



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

Proprietory 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

P9035-0NTGI

Renesas Technology Corp TQFN48

P9261-3CNLG2

Renesas Technology Corp QFN

P9260-0NLG28 Renesas Technology Corp BGA

P9243-GBNDGI

Renesas Technology Corp VQFN48

P9225-RAHGI8

Renesas Technology Corp WLCSP-52

P9036-0NTGI Renesas Technology Corp QFN48

P9235A-RBNDGI Renesas Technology Corp VFQFPN-40

P9030-0NTG18 Renesas Technology Corp QFN

P9038-RNDGI Renesas Technology Corp QFN56 **P9235A-RNDGI8**

Renesas Technology Corp QFN40

P9028AC-0NBGI Renesas Technology Corp QFN32

P9418-0AWQI8 Renesas Technology Corp 70-XFBGA

P9241-GNDGI Renesas Technology Corp VFQFPN

P9261-3CNLG28 Renesas Technology Corp QFN28