

Description: ISM 868/915MHz PCB Antenna with coax feed

Series: Internal Antenna

PART NUMBER: W3312XXXXXX

•

Features:

863-928MHz

Size 75x15 mm

 Flexible PCB thickness 0.1 mm with adhesive tape

adhesive tape on back side

 100mm 1.13mm OD coax cable with U.FL connector

Mounting with 3M467





All dimensions are in mm / inches

Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden. For more information:

Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100

Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 USA Tel: 1-360-944-7551

Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



Applications:

- Devices with ISM 868MHz / 915MHz radios
- M2M, IoT
- Metering, Industry automation
- Instrumentation



Series: Internal Antenna

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX

ELECTRINIC SPECIFICATIONS

Frequency	863-928	MHz
Nominal Impedance	50	Ω
Return loss	-8	dB
Efficiency	45	%
Peak Gain	0.8	dBi +/- 1 dB
Polarization:	linear	
Power withstanding	2	W

Note: All RF data measured with 1.5mm polycarbonate plate to simulate loading effect of real device housing.

Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



2



Series: Internal Antenna Series: Internal Antenna

PART NUMBER: W3312XXXXXX

This document covers all product variants of the following product family

Antennas	Color	Connector
W3312B0100	Green	1.13mm OD coax cable with U.FL connector
W3312BB0100	BLACK	

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



3



Series: Internal Antenna

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX

MECHANICAL SPECIFICATIONS				
PCB type	Flexible			
Radiator size	15[0.59] x 75[2.95] mm[inch]			
Adhesive	3M467			
Total thickness (Radiator+adhesive)	0.1[0.004] mm[inch]			
Weight	0.74g			
Cable type	OD 1.13mm coax			
Cable length	100[3.94] mm[inch]			
Connector	U.FL compatible			

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40/+85 °C

Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



4



Description: ISM 868/915MHz PCB Antenna with coax feed

Series: Internal Antenna

PART NUMBER: W3312XXXXXX

MECHANICAL DRAWING



Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



5



Series: Internal Antenna

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX

CHARTS

Return loss



Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

6



Series: Internal Antenna

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX

CHARTS

Efficiency

Efficiency vs Frequency measured with 1.5mm polycarbonate plate W3312B0100 measured in PSU ,September 18,2016



Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



7



Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX

CHARTS

Peak Gain

Peak Gain vs Frequency measured with 1.5mm polycarbonate plate W3312B0100 measured in PSU,September 18,2016



Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



8



Series: Internal Antenna

TECHNICAL DATA SHEET

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX



Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



9



Series: Internal Antenna

TECHNICAL DATA SHEET

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX



Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

ROHS 10



Series: Internal Antenna

TECHNICAL DATA SHEET

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX



Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION





Series: Internal Antenna

Description: ISM 868/915MHz PCB Antenna with coax feed

PART NUMBER: W3312XXXXXX

PACKAGING

10PCS/PE bag 10 PE bag/foam bag 15 foam bag/carton box

Total 1500PCS/carton box





Issue: 1912

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



12



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный) **Факс:** 8 (812) 320-02-42 **Электронная почта:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.