

Description: ISM868/915MHz, 2.4GHz Ant

## Series: PCB Embedded

### PART NUMBER: W3333





### All dimensions are in mm / inches

### Issue: 1615

For more information:

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# Features:

- Small clearance needed (about 4mm)
- Test PCB size 118.5\*102mm
- High efficiency
- · Small compact form factor
- Low profile
- Multi-band (ISM and 2.4 GHz)
- Board Mountable
- 2 connection points
- Lead free materials
- RoHS Compliant Product

# **Applications:**

- Data transmission for IoT applications
- High speed data terminals
- Routers using ISM frequencies
- · ISM and WiFi dual applications
- Hot Spots
- Radio modules
- WiFi / BLE / Zigbee



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## **ELECTRICAL SPECIFICATIONS**

Frequency port1	863-928MHz
Frequency port2	2400-2500MHz
Nominal Impedance	50Ω
Return Loss	-8dB max@ISM868/915MHz
	-12dB max@ISM2.4GHz
Isolation port1&port2	-15dB
Average efficiency	75%@ISM868/915MHz
	75%@ISM2.4GHz
Gain	2.5 +/- 1dBi@ISM868/915MHz
	4+/- 1dBi@ISM2.4GHz
Radiation Pattern	Omni
Polarization:	linear
Power withstanding	3W

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MECHANICAL SPECIFICATIONS	
Material	FR4
Color	Black
Weight	1g
Overall Length	1.57 INCHES
Overall width	0.67 INCHES

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### **MECHANICAL DRAWING**



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## **OTHER SPECIFICATIONS**

# Recommended PCB layout(Unit:mm)



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## **OTHER SPECIFICATIONS**





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CHARTS



## ISM868/915MHz Band Return Loss

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## CHARTS

# ISM2.4GHz Return Loss



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### **CHARTS** Isolation Fr1 S21 Log Mag 5.000dB/ Ref 0.000dB [F2] 15.00 1 863.00000 MHz -17.111 dB 2 870.00000 MHz -16.665 dB 3 902.00000 MHz -15.907 dB 4 928.00000 MHz -16.774 dB 10.00 5 2.4000000 GHz -18.310 dB >6 2.5000000 GHz -19.447 dB 5.000 0.000 -5.000 -10.00 -15.00-20.00 -25.00 -30.00 -35.00 200 $\triangle$ IFBW 70 kHz Stop 3 GHz Cor Start 700 MHz

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# CHARTS

# Efficiency(%)



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ROHS 10



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## CHARTS

# Peak Gain(dBi)



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ROHS 11



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### CHARTS



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ROHS 12



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CHARTS



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ROHS 13



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### CHARTS



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ROHS 14

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Theta Angle (°)

180



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### CHARTS



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RoHS



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### CHARTS



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ROHS 16



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### CHARTS



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ROHS 17



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## PACKAGING

10PCS/PE bag 1000PCS/box

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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

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