

Description: 2.4/5GHz Dualband WiFi SMT

Antenna Series: Embedded Antenna

PART NUMBER: W3715



## **Features:**

- Frequency: 2.4-2.5/4.9-6GHz
- Gain: 3.7/5.5dBi
- Size: 11 x 7 x 16 mm
- SMT compatible
- Packing: Tape&Reel
- RoHS compliant

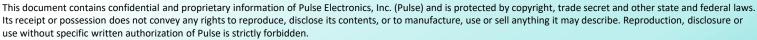
# **Applications:**

- WiFi, ISM 2.4/5GHz
- Bluetooth, Zigbee, BLE
- DSRC 5.925GHz
- IoT and M2M devices
- Portable Electronics
- Security, Transportation

All dimensions are in mm / inches

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For more information: Pulse Worldwide Headquarters

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### **ELECTRICAL SPECIFICATIONS**

Frequency	2.4-2.5GHz, 4.9-6GHz
Nominal Impedance	50Ω
VSWR	2:1
Peak Gain (2.4-2.5GHz)	3.7dBi +/- 1 dB
Peak Gain (4.9-6GHz)	5.5dBi+/- 1 dB
Efficiency	74%
Power withstanding	5W
Radiation Pattern	Omni

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2



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MECHANICAL SPECIFICATIONS		
Material	SUS304	
Thickness	0.5 mm	
Finish	Ni plating 1-3 um	
Weight	0.56 g	
Size(L X W X H)	11(0.43)X 7(0.28) X 16(0.63) mm(inch)	
Fixing system	SMT	

# **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature

-40/+85 °C

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3

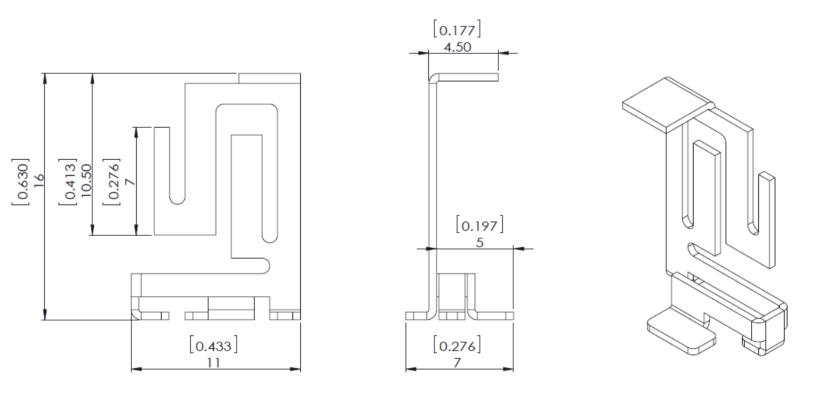


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### **MECHANICAL DRAWING**



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4

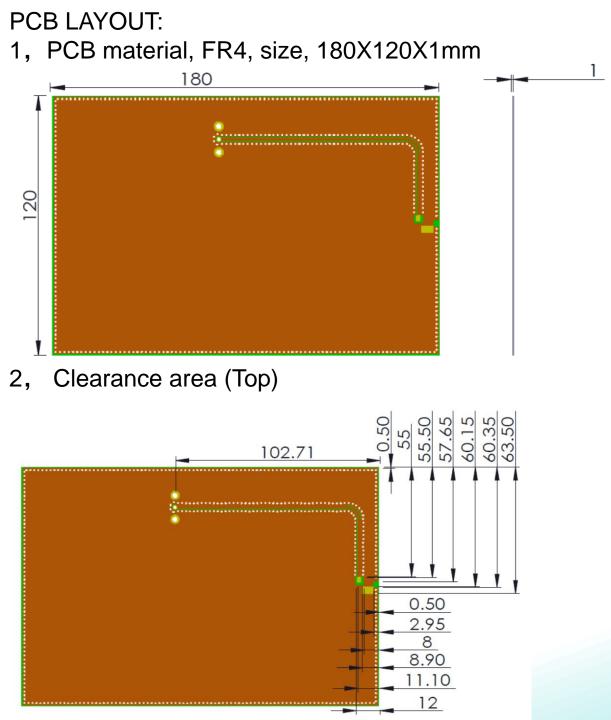


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### **OTHER SPECIFICATIONS**



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5



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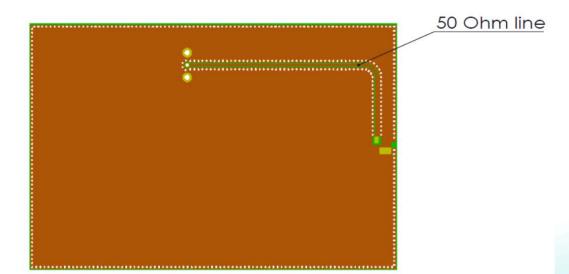
PART NUMBER: W3715

# **OTHER SPECIFICATIONS**

3, Clearance area (Bottom)

102.71	
•••••••••••••••••••••••••••••••••••••••	***************************************

# 4, PCB Features



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6



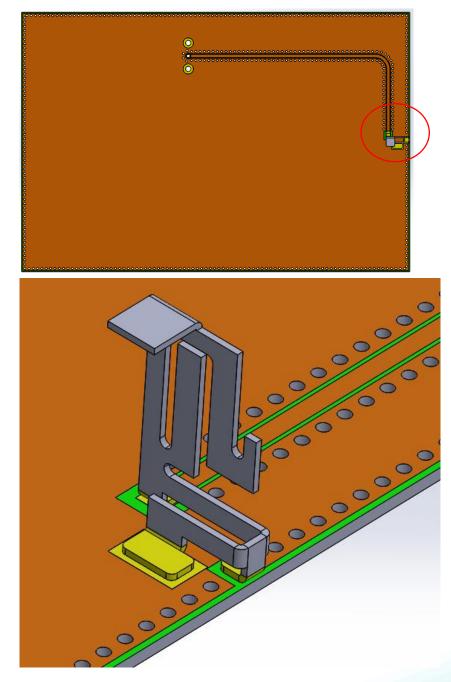
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PART NUMBER: W3715

## **OTHER SPECIFICATIONS**

3, Antenna on test PCB



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### **OTHER SPECIFICATIONS**

# **Recommendation for reflow soldering process**

Printing stencil thickness 0,15 - 0,25 mm is recommended for the solder paste. The maximum soldering temperature should not exceed 260°C. The temperature profile recommendations for reflow soldering process is presented in the Figures 1 and 2. The reflow profile presented in figure 1 describes minimum reflow temperatures. The reflow profile presented in figure 2 describes maximum reflow temperatures. located at the center of the coverage area.

	Method of heat transfer	Controlled hot air convection
1	Average temperature gradient in preheating	2.5 °C/s
2	Soak time	2-3 minutes
3	Max temperature gradient in reflow	3 °C/s
4	Time above 217 °C	Max 30 sec
5	Peak temperature in reflow	230 °C for 10 seconds
6	Temperature gradient in cooling	Max -5 °C/s

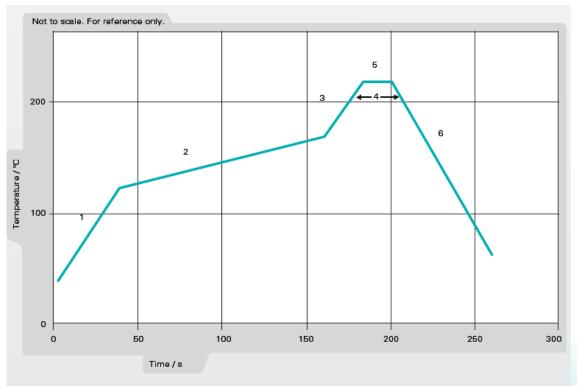


Figure 1. Minimum temperature profile recommendation for reflow soldering process

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	Method of heat transfer	Controlled hot air convection
1	Average temperature gradient in preheating	2.5 °C/s
2	Soak time	2-3 minutes
3	Max temperature gradient in reflow	3 °C/s
4	Time above 217 °C	Max 60 sec
5	Time above 230 °C	Max 50 sec
6	Time above 250 °C	Max 10 sec
7	Peak temperature in reflow	260 °C for 5 seconds
8	Temperature gradient in cooling	Max -5 °C/s

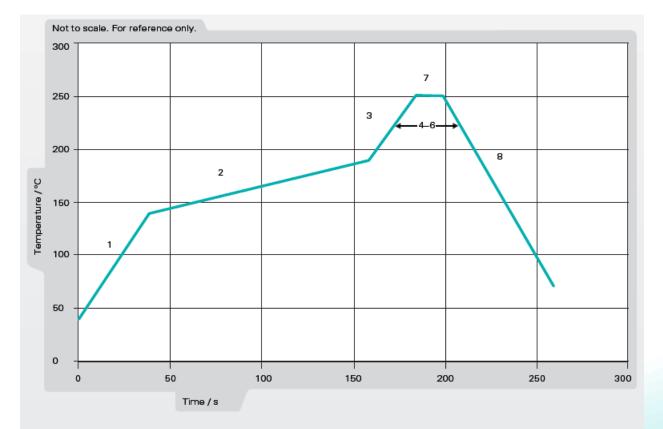


Figure 2. Maximum temperature profile recommendation for reflow soldering process

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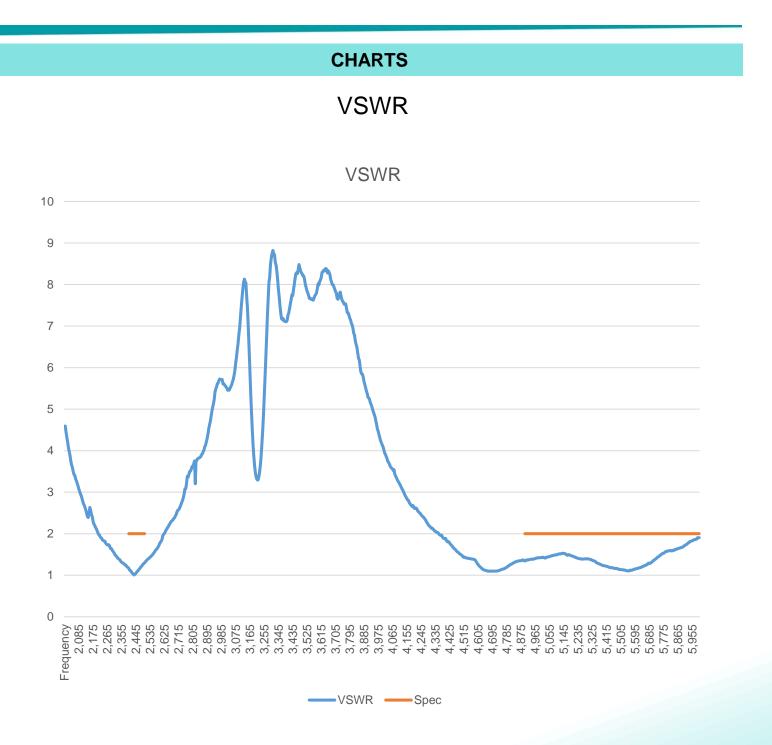
9



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ROHS 10



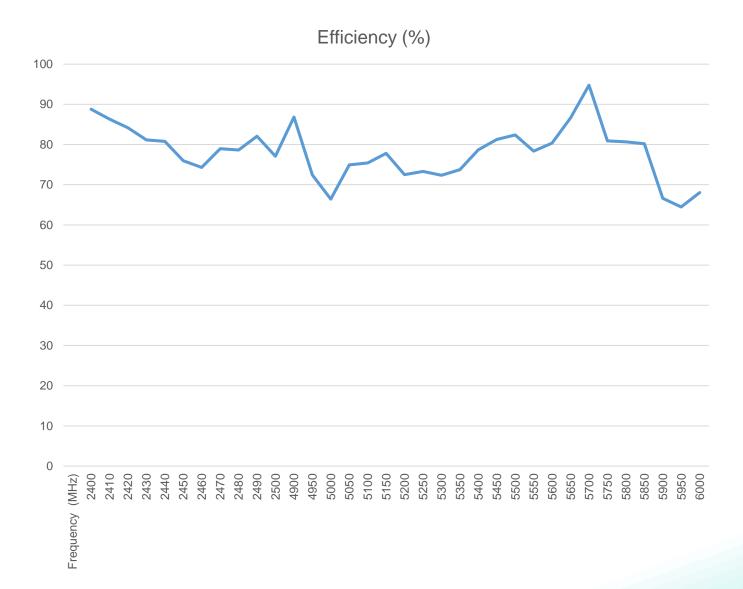
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# CHARTS

Efficiency(%)



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11



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## CHARTS

Peak Gain (dBi)



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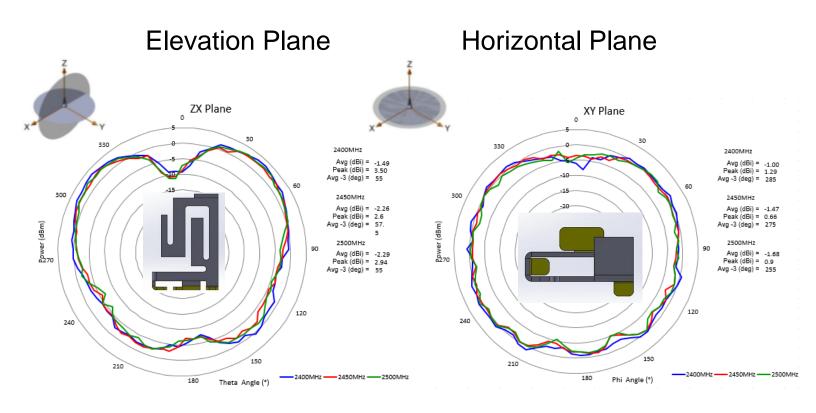
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### CHARTS

# Free Space Radiation Pattern



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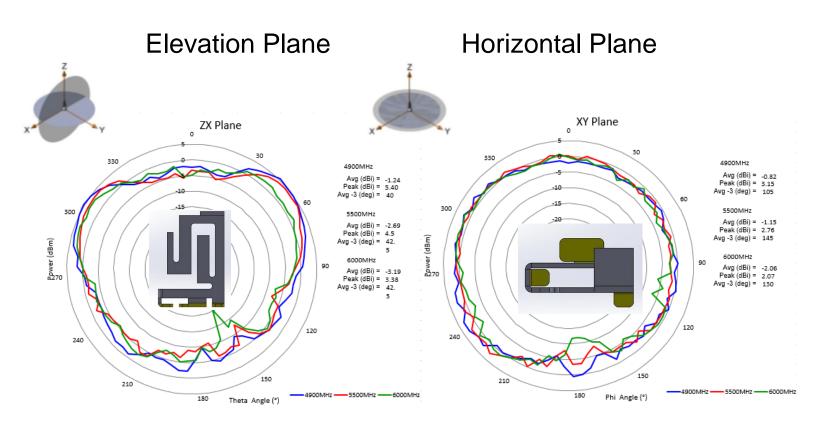
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PART NUMBER: W3715

### **CHARTS**

# Free Space Radiation Pattern



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### PACKAGING

Tape and Reel packing: 200 PCS/ Tape and Reel 400PCS/ Carton box

Tape Width : 32mm Tape Material : Polystyrene





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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.);

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- 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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