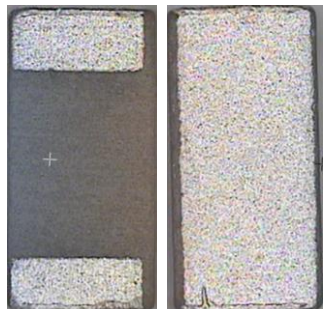
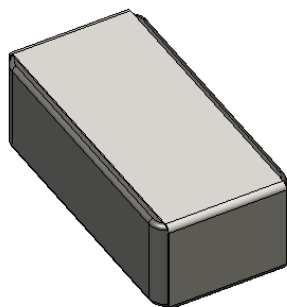


## Description: Ceramic Dual Band WLAN

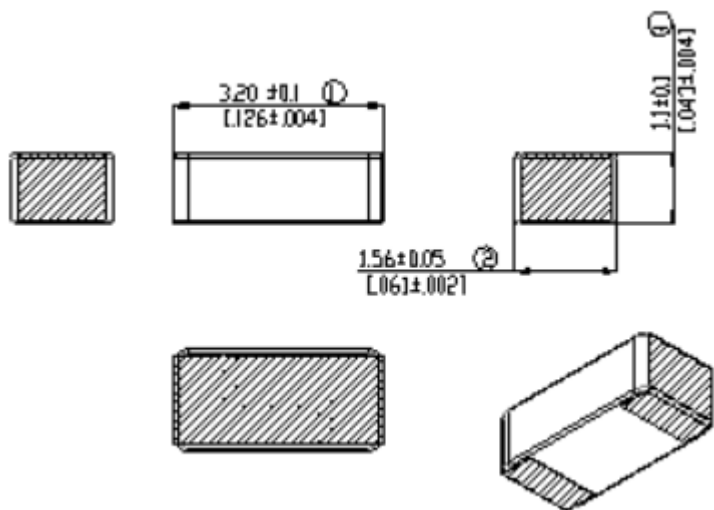
Series: Antenna

**PART NUMBER: W3079**



### Features:

- High efficiency and high peak gain
- Low Profile
- Compact size (3.2x1.56x1.1mm)
- SMD compatible



### Applications:

- IEEE 802.11 a/b/g
- Bluetooth, Zigbee
- 2.4GHz and 5GHz WLAN
- 2.4GHz and 5GHz ISM band

All dimensions are in mm / inches

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Tel: 49 7032 7806 0

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



## Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

## ELECTRICAL SPECIFICATIONS

Frequency	2.4–2.4835 / 5.15–5.85 GHz
Nominal Impedance	50 $\Omega$
VSWR	< 1.9 / < 2.5
Gain (peak)	2.4 / 5.7 dBi +/- 1 dB
Total efficiency (peak)	70 / 77 %
Ground clearance area under antenna	6.0 x 11.00mm

## MECHANICAL SPECIFICATIONS

Weight	0,033 g
Overall Dimensions (L*W*H)	3.2*1.56*1.1 mm

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40--85 ° C
MSL	Level3

### Description: Ceramic Dual Band WLAN

Series: Antenna

**PART NUMBER: W3079**

# MECHANICAL DRAWING

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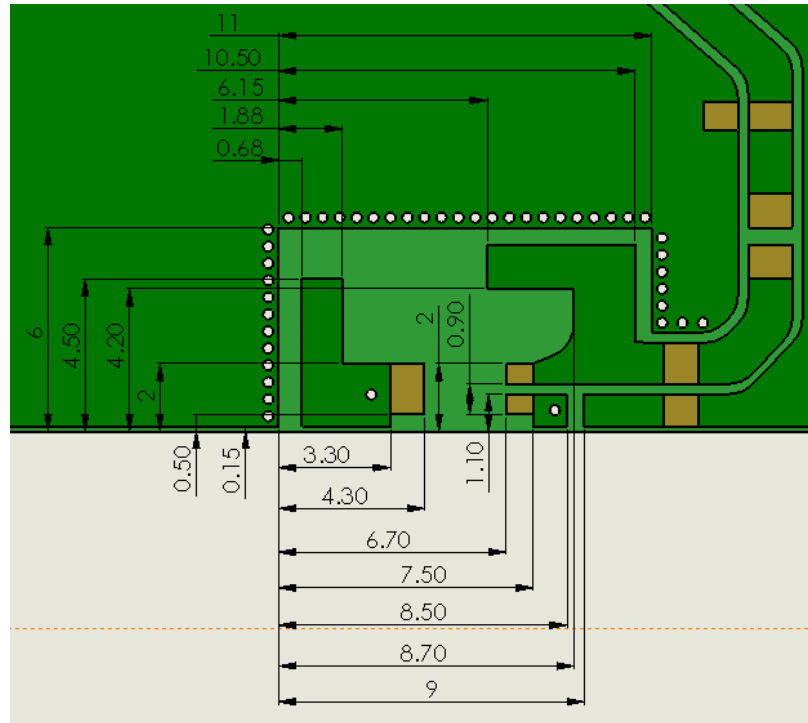
## Description: Ceramic Dual Band WLAN

Series: Antenna

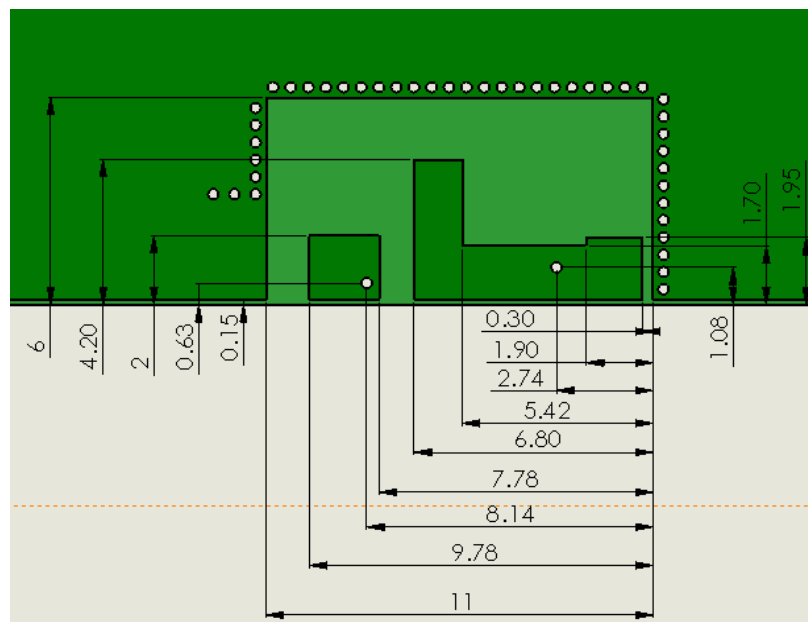
PART NUMBER: W3079

### OTHER SPECIFICATIONS

*Top side*



*Bottom side*



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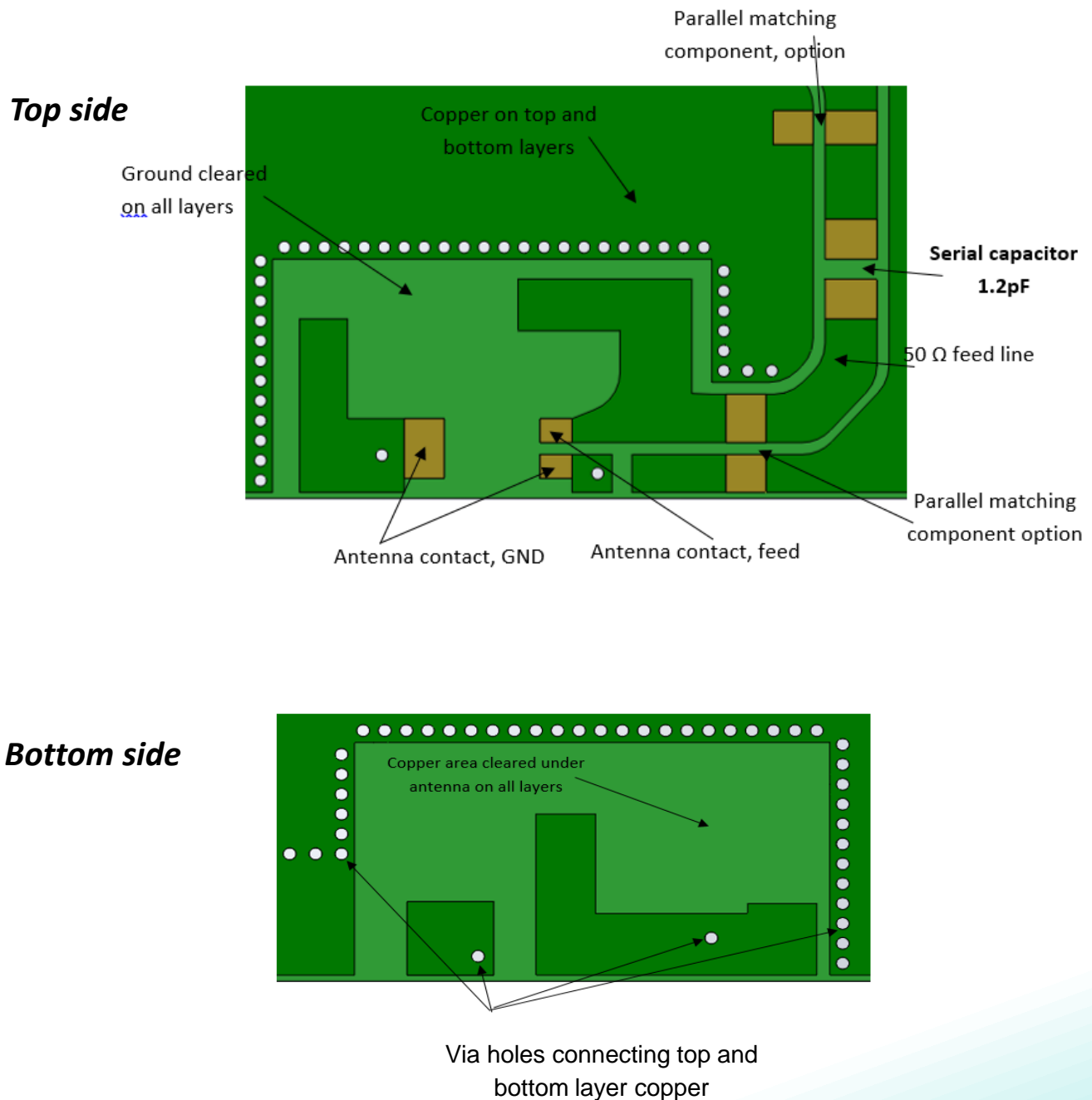
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Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

OTHER SPECIFICATIONS



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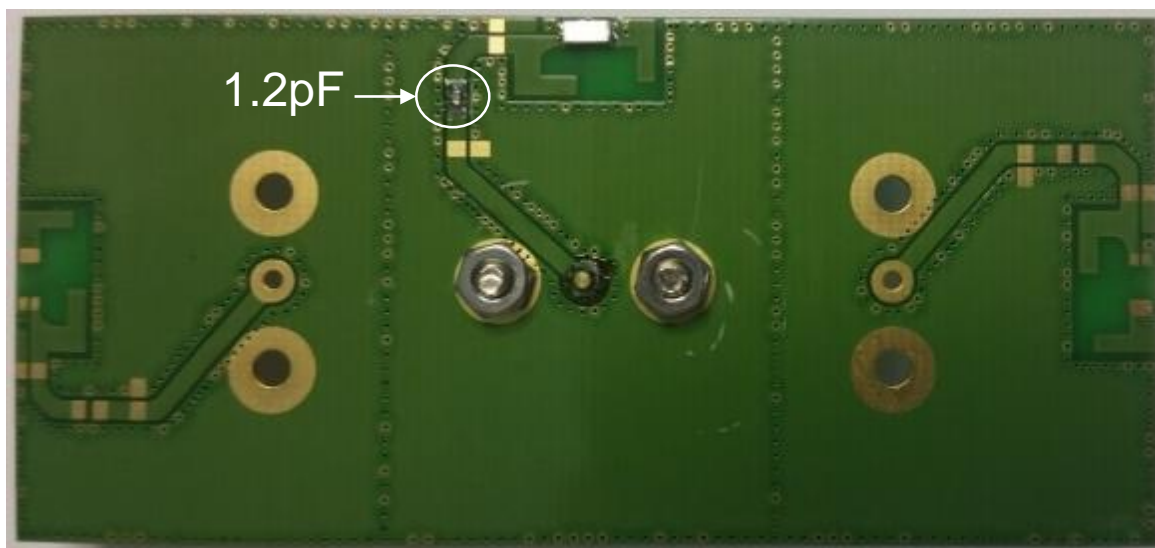
## Description: Ceramic Dual Band WLAN

Series: Antenna

**PART NUMBER: W3079**

### Recommended Antenna Position on PCB

- The recommended antenna location is the center edge of the longer PCB side.
- All measurement results of W3079 are measured on the 37x80mm evaluation board with matching circuit (series 1.2pF capacitor).
- To construct a fine matching on customer PCB design, proper impedance matching values should be obtained with a final customer PCB dimension, surrounded metallic components, and a package condition (with final assembly condition).
- The recommended minimum PCB size is around 35x35mm to obtain similar RF performances of datasheet. For more discussion, please contact to Pulse electronics.



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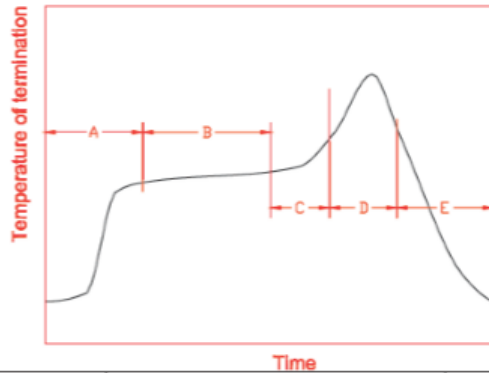
## Description: Ceramic Dual Band WLAN

Series: Antenna

**PART NUMBER: W3079**

### OTHER SPECIFICATIONS

#### Recommended reflow soldering



A	1 <sup>st</sup> rising temperature	The normal to Preheating temperature	30s to 60s
B	Preheating	140°C to 160°C	60s to 120s
C	2 <sup>nd</sup> rising temperature	Preheating to 200°C	20s to 40s
D	Main heating	if 220°C	50s~60s
		if 230°C	40s~50s
		if 240°C	30s~40s
		if 250°C	20s~40s
		if 260°C	20s~40s
E	Regular cooling	200°C to 100°C	1°C/s ~ 4°C/s

\*reference: J-STD-020C

#### (1) Soldering gun procedure

Note the follows, in case of using solder gun for replacement.

(a) The tip temperature must be less than 350°C for the period within 3 seconds by using soldering gun under 30 W.

(b) The soldering gun tip shall not touch this product directly.

#### (2) Soldering volume

Note that excess of soldering volume will easily get crack the body of this product.



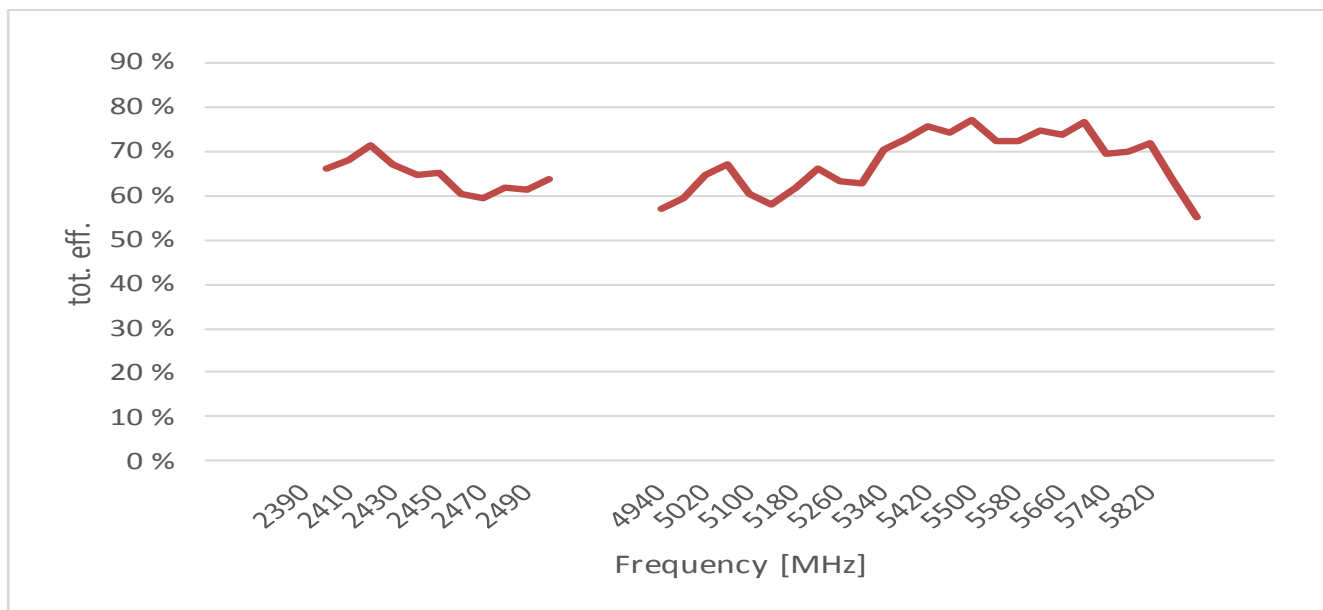
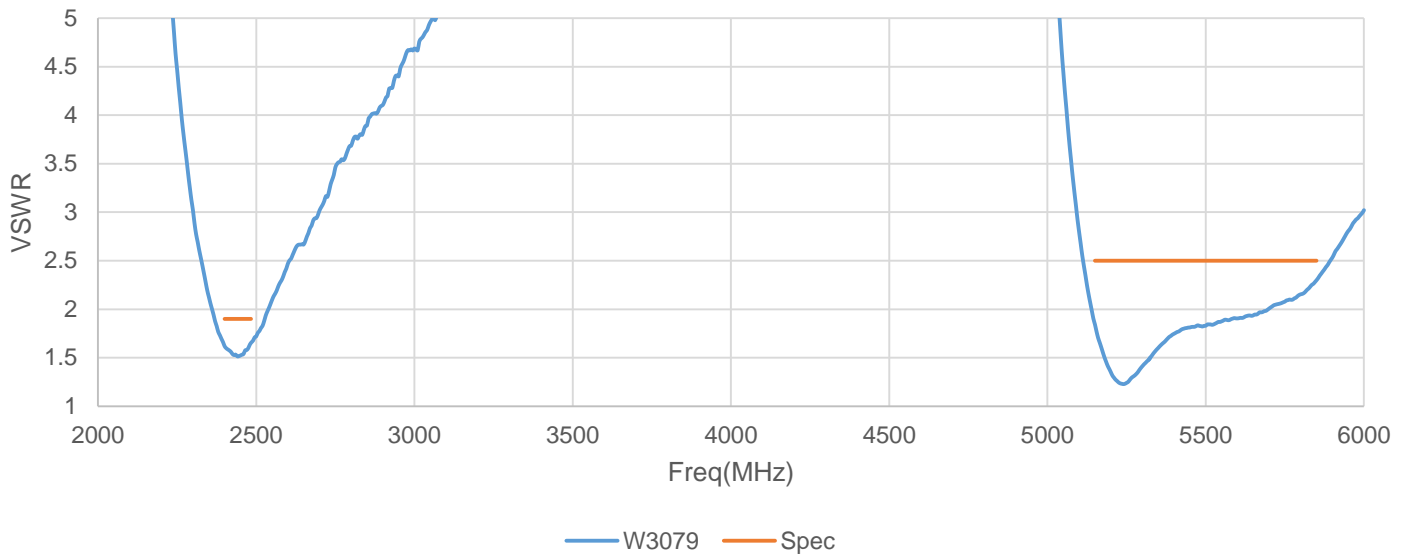
## Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

### CHARTS

W3079\*



\* Free space measurements on Pulse reference test PCB

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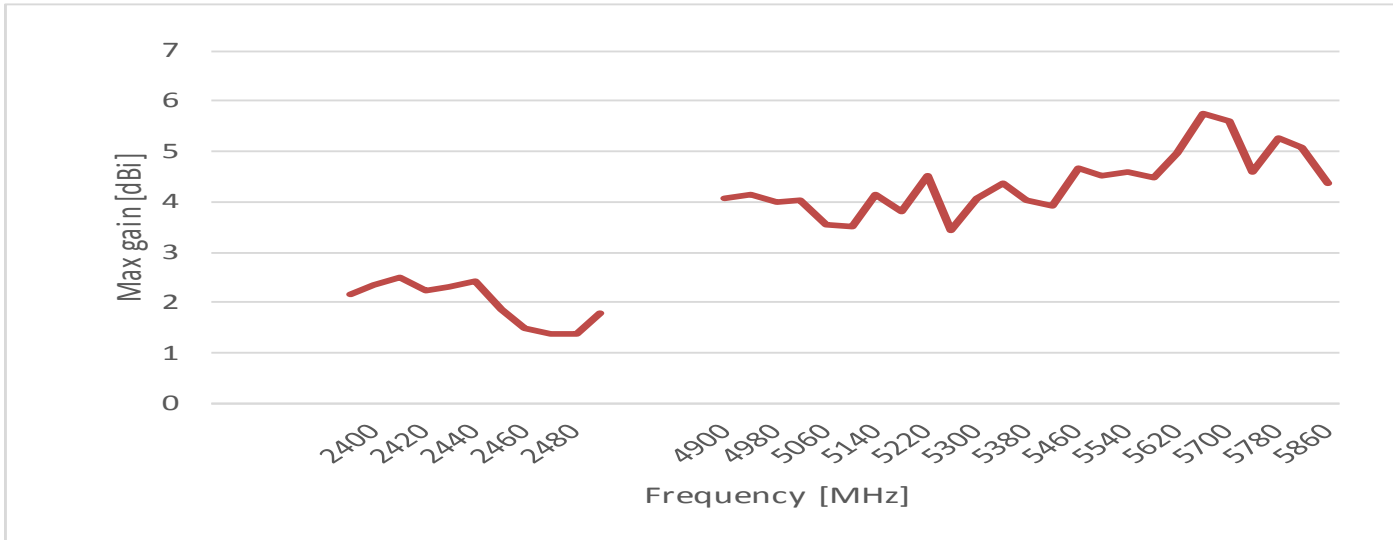


## Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

### CHARTS



\* Free space measurements on Pulse reference test PCB

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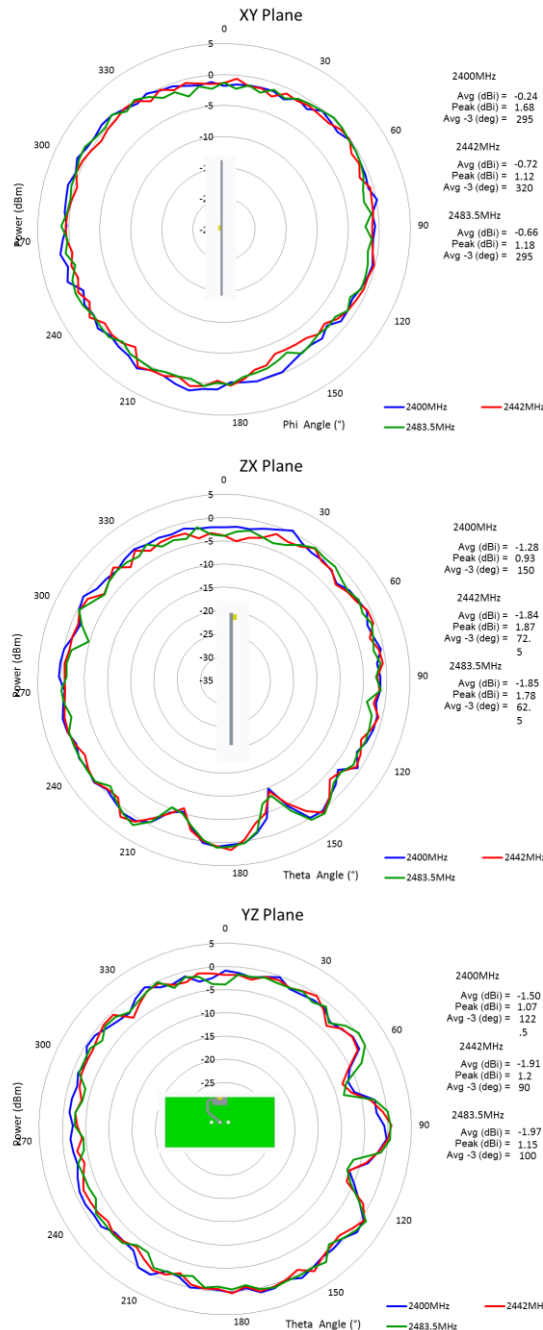
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## Description: Ceramic Dual Band WLAN

Series: Antenna

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### CHARTS



\* Free space measurements on Pulse reference test PCB

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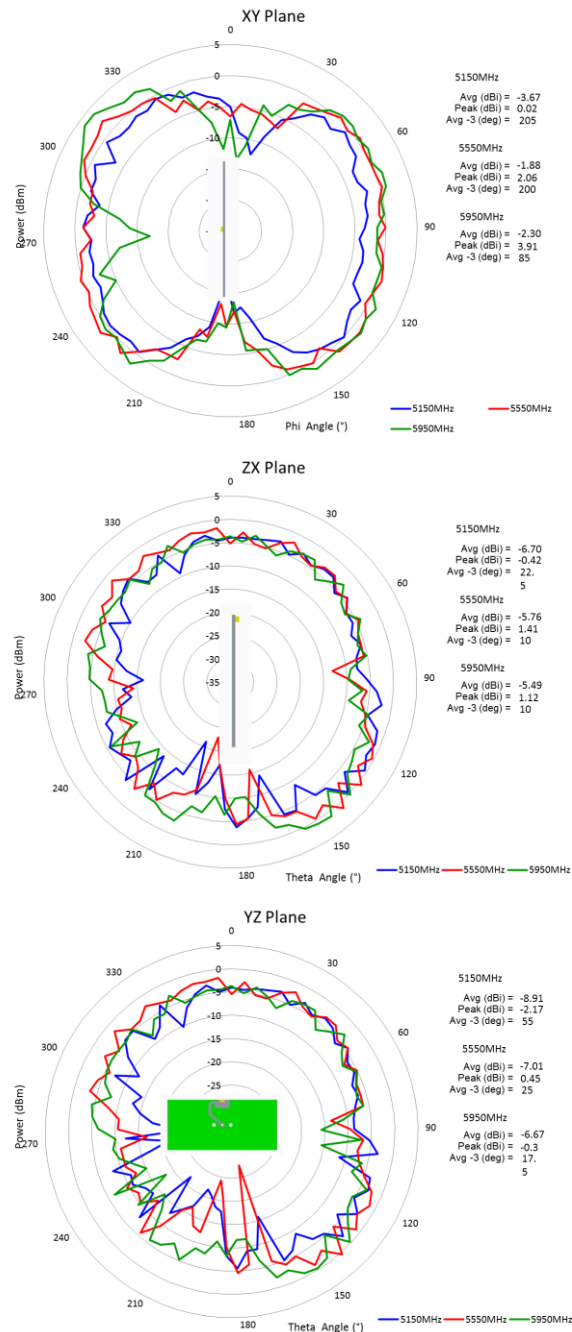
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# Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

## CHARTS



\* Free space measurements on Pulse reference test PCB

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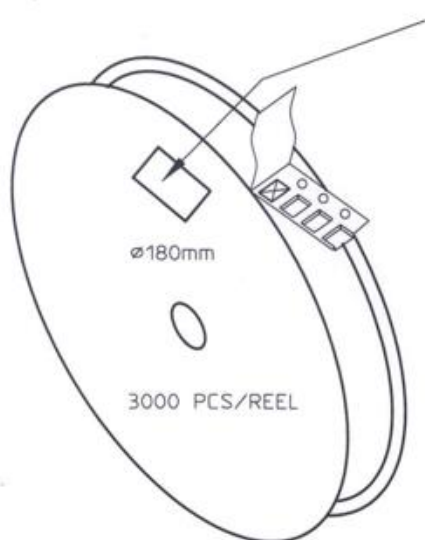
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## Description: Ceramic Dual Band WLAN

Series: Antenna

**PART NUMBER: W3079**

### PACKAGING



#### REEL LABEL INFORMATION:

- TRACEABILITY
- QUANTITY
- PRODUCT CODE

CARRIER TAPE H85-00125

width=8,00 depth=1,22

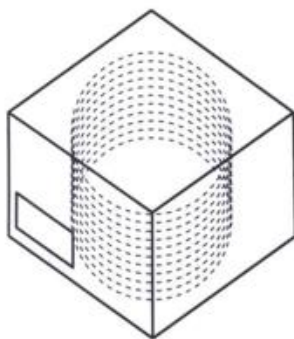
COVER TAPE H85-00126

width=5,60

#### LENGTH OF TAPE:

- Leader section: min 350 mm before component section
- Trailer section: min 40 mm after component section.

Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.



BOX H85-00128  
(182x182x132)

1 pcs

- LABEL

1 pcs/BOX

REEL H85-00127  
(D180, W12)

10 pcs

- REEL LABEL

1 pcs/REEL

### ASSEMBLY

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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