

Series: Internal PCB antenna

Description: 2.4/5GHz Dual Band Pigtail PCB Dipole

### PART NUMBER: W3513



# Features:

- Low profile
- Omni directional gain in XY-plane
- Size W x L x H (16 x 70 x 0.9 mm)
- Antenna feed cable length: 250mm (total) / 212mm (from radiator edge)
- Antenna feed cable: 1.13mm OD with U.FL compatible connector
- Lead free materials
- RoHS Compliant Product

# **Applications:**

- Access point routers 802.11n
- WLAN/WiFi 802.11a/b/g/n

#### All dimensions are in mm / inches

#### Issue: 1835

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## **ELECTRICAL SPECIFICATIONS**

#### **MECHANICAL SPECIFICATIONS**

Size W x L x H	16 x 70 x 0.9 mm		
Weight	2.57g		
Connector type	U.FL compatible connector		
Cable type	Ø1.13mm Coaxial Cable, Black		
Cable length	250mm		

### **ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature Storage Temperature RoHS Compliant -40 to +85 ° C -40 to +85 ° C Yes

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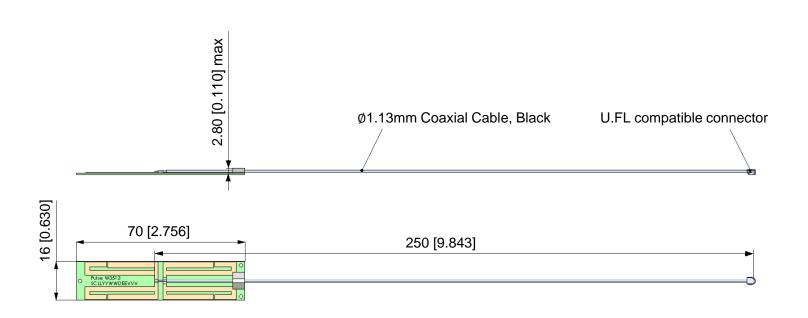


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## **MECHANICAL DRAWING**



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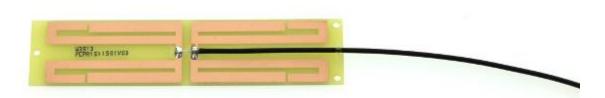
TECHNICAL DATA SHEET

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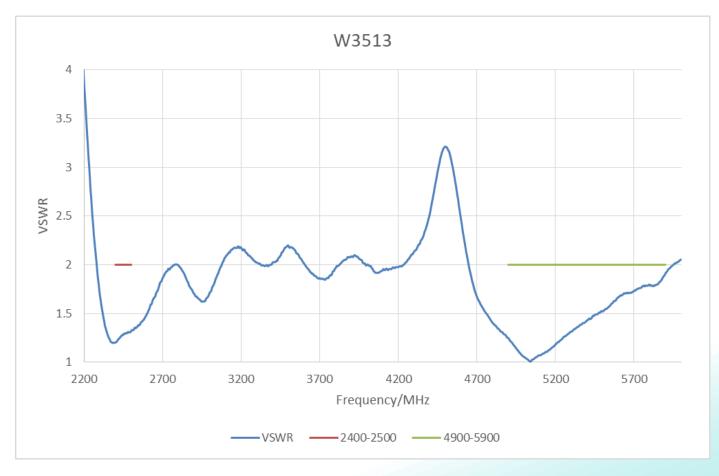
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# TEST SETUP



Test in free space.

# **VSWR vs Frequency**



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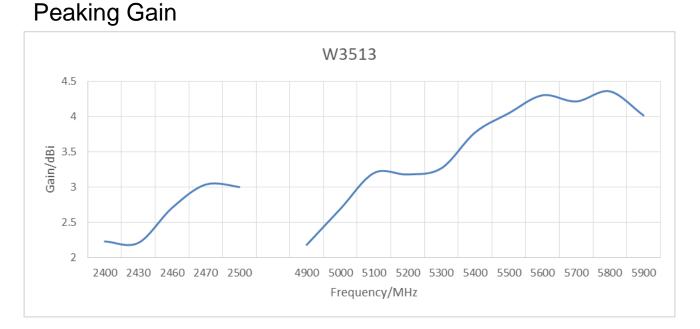


Description: 2.4/5GHz Dual Band Pigtail PCB Dipole

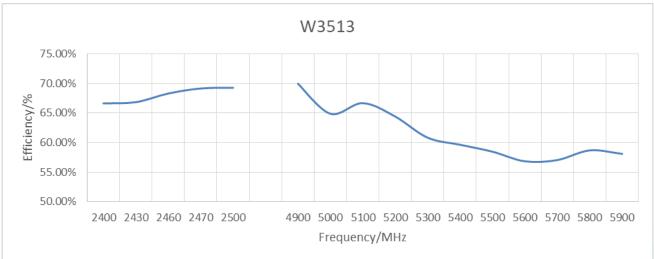
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**CHARTS** 



# **Radiation Efficiency**



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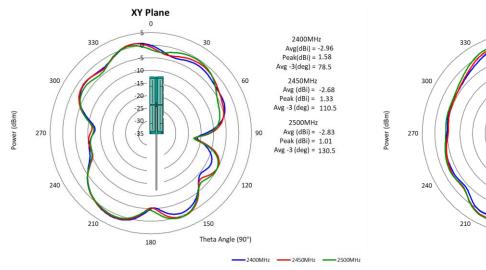
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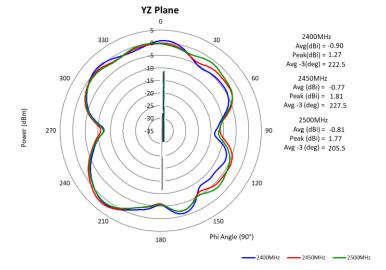
### Series: Internal PCB antenna

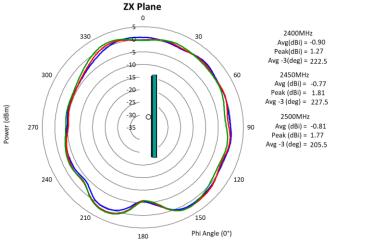
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### CHARTS

# Radiation Pattern 2D(2.4G-2.5G)







\_\_\_\_\_2400MHz \_\_\_\_\_2450MHz \_\_\_\_\_2500MHz

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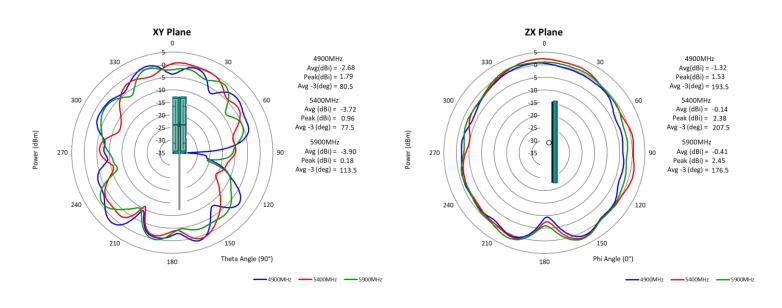
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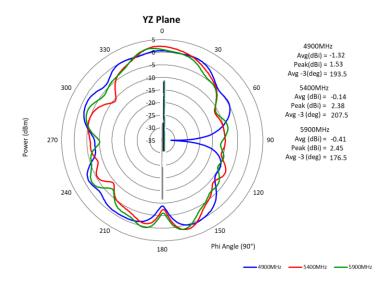
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### **CHARTS**

# Radiation Pattern 2D (4.9G-5.9G)





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### CHARTS

The VSWR when placed on different materials.

SETUP	Frequency/GHz	VSWR	
		Min	Max
Space	2.4-2.5	1.20	1.36
	4.9-5.9	1.00	1.90
ABS	2.4-2.5	1.36	1.55
	4.9-5.9	1.20	2.40
glass	2.4-2.5	1.43	1.57
	4.9-5.9	1.38	2.49
Metal_0cm	2.4-2.5	7.80	8.00
	4.9-5.9	5.16	6.00
Metal_0.5cm	2.4-2.5	4.75	4.96
	4.9-5.9	1.50	2.50
Metal_1cm	2.4-2.5	2.88	3.19
	4.9-5.9	1.4	2.21
Metal_2cm	2.4-2.5	1.69	2.03
	4.9-5.9	1.09	1.95
Metal_3cm	2.4-2.5	1.30	1.54
	4.9-5.9	1.10	1.79

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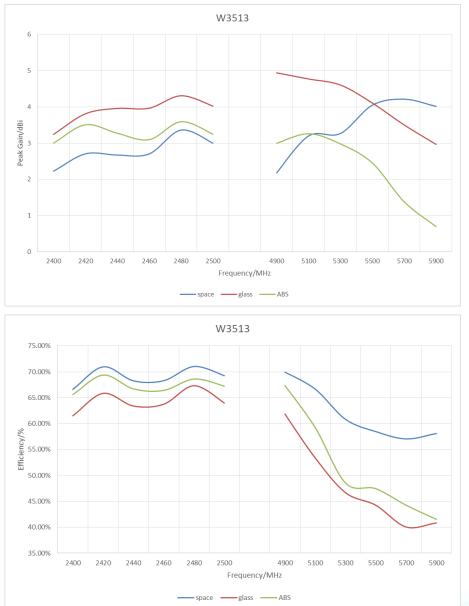
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## CHARTS

# Antenna is placed on ABS & glass.



When placed on ABS or glass, mainly difference is in high frequency band(4.9G-5.9G). Which performance will decline.

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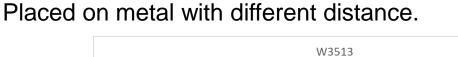


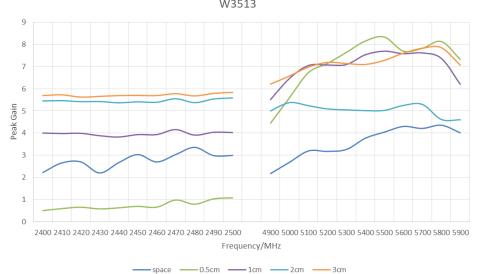
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## CHARTS







When the distance is 0.5-2cm, the metal mainly affect the performance of low frequency band(2.4G-2.5G). When the distance is above 2cm, the metal will have a little influence in two band.

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## PACKAGING

5 pcs per PE bag, 250 pcs per foam bag, 6 foam bags per box, 1500 pcs per box.

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单击下面可查看定价,库存,交付和生命周期等信息

>>Pulse(普思)