

## WPANT30102-S1B

### 2.45 GHz Wi-Fi MIMO Body-mount Antenna



Note: Prototypes shown. The actual antenna will be grey in color.

### Description / Application

This is a Wi-Fi / WLAN MIMO Body mount antenna. It is surface independent, which means it performs efficiently on metallic as well as non-metallic surfaces. The recommended minimum spacing between the two elements is 70mm. Standard cable is 24" long 1.32mm OD micro coax and connector is RP - SMA Male.

Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

<b>Operating Frequency</b>	2.4 – 2.5 GHz
<b>Approximate Antenna Impedance [<math>\Omega</math>]</b>	50 $\Omega$
<b>VSWR – Typical</b>	< 2:1
<b>Peak Gain [dBi] (Typical)</b>	2 dBi
<b>Efficiency [%] (Typical)</b>	70 %
<b>Isolation [dB] (Typical)</b>	< -30 dB
<b>Polarization</b>	Linear
<b>Pattern</b>	Near Omni-directional

### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	1.5" Height** X 1.3" Base Dia (38mm X 32.3mm)
<b>Antenna Color</b>	Grey
<b>Cable</b>	24" long 1.32mm OD Micro Co-ax
<b>Connector</b>	Reverse Polarity Straight SMA Male
<b>Tape</b>	Standard 3M 4920 double stick
<b>External Bottom Gasket Material</b>	Standard 3M 6208 foam
<b>Nut</b>	Standard Nylon M12
<b>Torque for the Nut</b>	1.2
<b>Antenna Plastic Radome</b>	ABS + Polycarbonate
<b>Operating / Storage Temperature</b>	-40°C to +90°C
<b>Environmental (for the complete antenna assembly, including the external foam gasket)</b>	Salt Spray Resistant, Water Ingress Resistant, UV Resistant, Ageing Resistant, Meets standards for UL 94V-0 This antenna is built in accordance with: IP 67,66,65 NEMA 250-2008 ASTM G 85-2009 ASTM G 154-2006
<b>Hazardous Materials</b>	RoHS Compliant

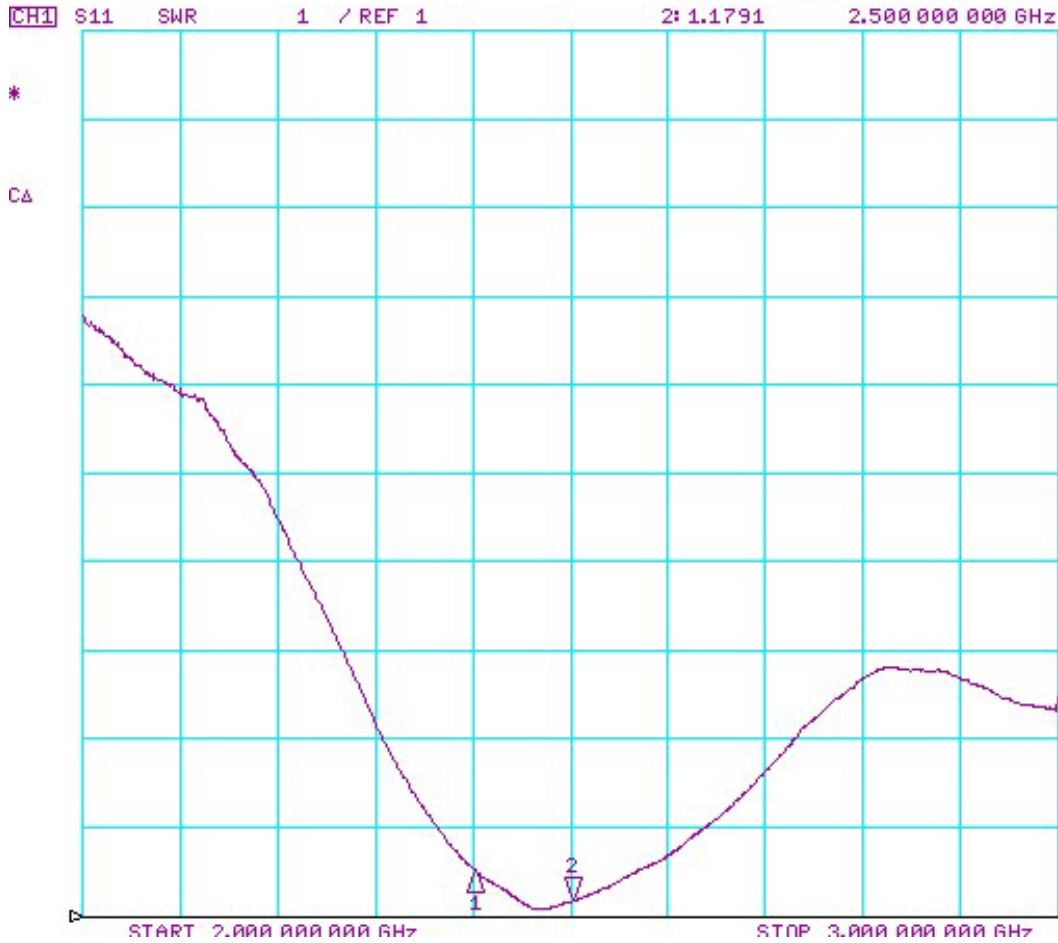
\*\*Height includes the 3M tape & foam gasket thickness.

## Pictures of the Antenna



Note: Prototypes shown here. The actual antenna will be grey in color.

### VSWR of the Single Element of the Antenna



CH1 Markers  
1: 1.5149  
2: 2.40000 GHz