

## WPANT10045-C1A

### 850 / 1900 MHz Cellular & 2.4 GHz Wi-Fi Embedded Antenna



### Description / Application

This tri-band antenna has a very thin & sleek profile, and can easily be installed inside any wireless device. Good efficiency and ease of integration make this an ideal choice for applications where space is a constraint. This antenna works very efficiently on any non-metallic surface.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to trouble shoot system integration issues such as TRP/TIS and FCC requirements. We specialize in developing customized Antenna solutions. Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

Operating Frequency	824 – 894 MHz	1850 – 1990 MHz	2.4 – 2.5 GHz
Approximate Antenna Impedance [ $\Omega$ ]	50 $\Omega$	50 $\Omega$	50 $\Omega$
VSWR – Typical	< 2:1	< 2:1	< 2:1
Peak Gain [dBi] (Typical)	~ 0.5 dBi	1 to 2 dBi	1 to 2 dBi
Efficiency [%] (Typical)	50 – 60 %	55 – 60 %	55 – 60 %
Polarization	Linear	Linear	Linear
Pattern	Near Omni-directional	Near Omni-directional	Near Omni-directional

### Mechanical / Environmental Properties

Antenna Dimensions	3.3" X 0.4" X 62mils (84.6mm X 10.2mm X 1.6mm)
Antenna Color	Navy Blue
Cable	2.24" long 1.13mm OD Micro Co-ax / U.FL covered with heat shrink tubing
Connector	IPX / Hirose equivalent
Tape	0.13mm thick 3M 9469 double stick
Operating / Storage Temperature	-40°C to +90°C
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

### Pictures of the Antenna



**FRONT SIDE**



**BACK SIDE**