

## UWB Wearable Antenna



### Features and Benefits

- 3 - 10 GHz wearable antenna
- Waterproof cover
- Flexible material
- Unobtrusive – does not hinder vision or movement
- Small and lightweight
- Can be integrated with
  - Helmet
  - Tactical Vest

The **octane**<sup>®</sup> wearable UWB antennas are the ideal antenna solution for users requiring wearable UWB connectivity. This body wearable antenna is fabricated using a state-of-the-art, thin flexible material that conforms to the exterior of body armor or tactical vests. The unique form factor of this antenna is made possible by incorporating Pharad's patented **Flextenna**<sup>®</sup> flexible antenna technology. The lightweight, unobtrusive design, and flush mounting provide the most combat friendly alternative to rigid antennas. UWB link performance is maintained without hindering the user's vision or movement. A helmet mounted antenna and a torso worn spatially diverse antenna system that further enhances link performance are available. The standard SMA connector allows these antennas to easily connect to standard radios. The unsurpassed range and coverage performance of the **octane**<sup>®</sup> wearable antenna make it the preferred choice for UWB applications.

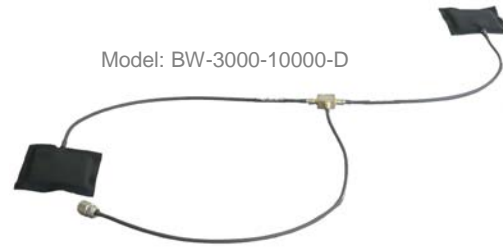
### Covert Antenna/Radio Carrier



### Integrated with Tactical Vest

## Characteristics

<b>Frequency</b>	3 – 10 GHz
<b>Efficiency</b>	> 85%
<b>Gain</b>	0 dBi
<b>Maximum Power</b>	5 Watts
<b>Pattern</b>	Near omni
<b>Polarization</b>	Vertical
<b>VSWR</b>	< 2:1
<b>Radiator Size (L x W x D)</b>	3.6" x 3.3" x 0.3"
<b>Cable Length</b>	16.5"
<b>Radiator Weight</b>	< 2 ounces
<b>Connector Type</b>	SMA, other



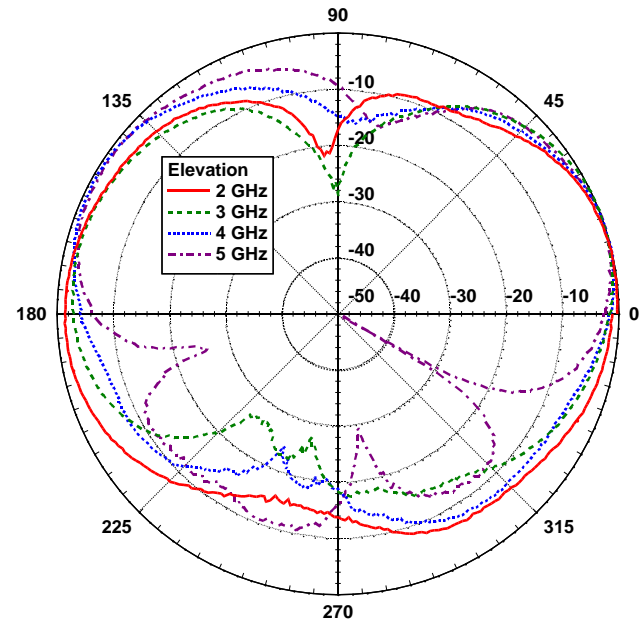
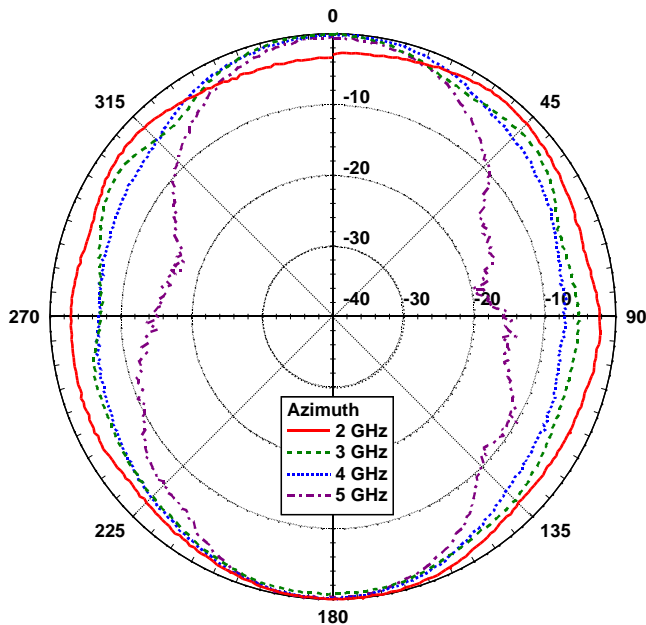
Model: BW-3000-10000-D

### Model Numbers

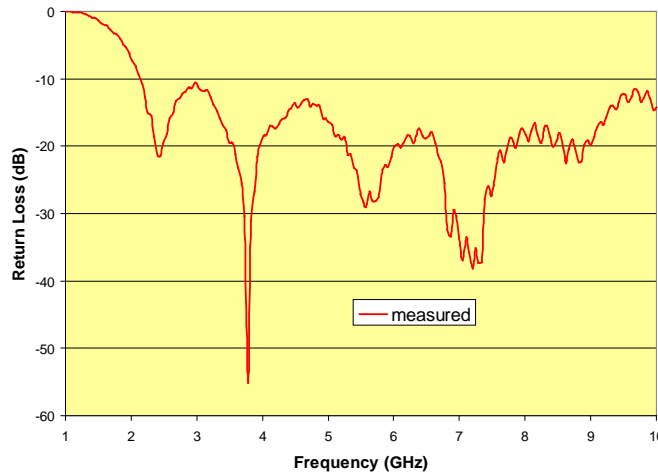
BW-3000-10000  
BW-3000-10000-D

Helmet worn  
Spatially diverse torso worn

## Radiation Patterns



## Typical Return Loss



This antenna is intended for occupational use only to satisfy FCC RF energy exposure requirements. This Octane Wireless antenna has been designed to comply with the IEEE (FCC) exposure limits for occupational/controlled RF exposure environments at usage factors of up to 50% talk-50% listen for radios transmitting up to -41 dBm/MHz power from 3-10 GHz.