

EPLRS Wearable Antenna



Features and Benefits

- EPLRS wearable antenna
- Waterproof cover
- Flexible material
- Unobtrusive – does not hinder vision or movement
- Small and lightweight
- Can be integrated with
 - Helmet
 - Body Armor Vest Carrier

The **octaneWIRELESS** wearable line of EPLRS antennas is the ideal antenna solution for soldiers engaged in urban and combat missions. 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 lightweight, unobtrusive design, and flush mounting provide the most combat friendly alternative to stub or whip antennas. EPLRS link performance is maintained without hindering the soldier's vision or movement. A helmet mounted antenna and a torso worn spatially diverse antenna system that further enhances link performance are available. The antenna system comes standard with an SMA connector, or optional TNC connector, allowing these antennas to easily connect to standard EPLRS radios such as the Raytheon MicroLight™ Radio. The unsurpassed range and coverage performance of the **octaneWIRELESS** wearable antenna make it the

Integrated with Helmet Cover



Integrated with Armor Vest

Characteristics

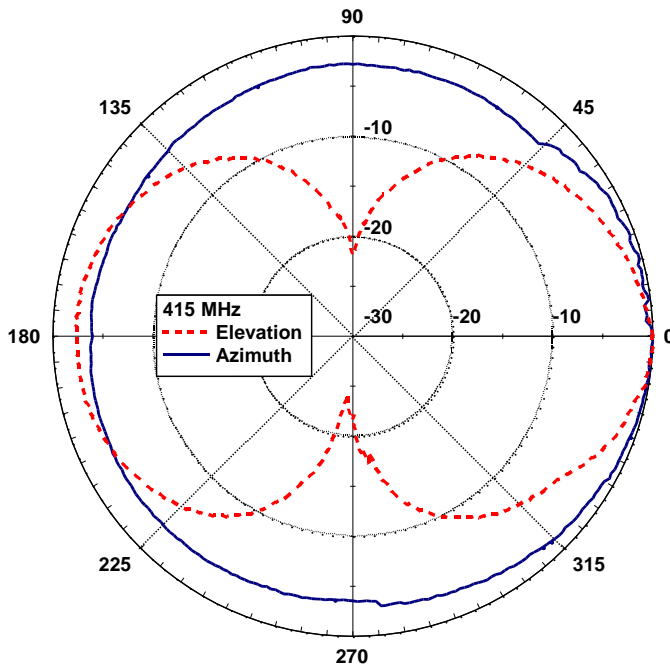
Frequency	420-450 MHz
Efficiency	> 85%
Gain	-3 dBi
Maximum Power	5 Watts
Pattern	Near omni
Polarization	Vertical
VSWR	< 2:1
Radiator Size (L x W x D)	3.0" x 2.7" x 0.3"
Cable Length	HW: 18" TW: 24"
Radiator Weight	< 2 ounces
Connector Type	TNC, SMA, other



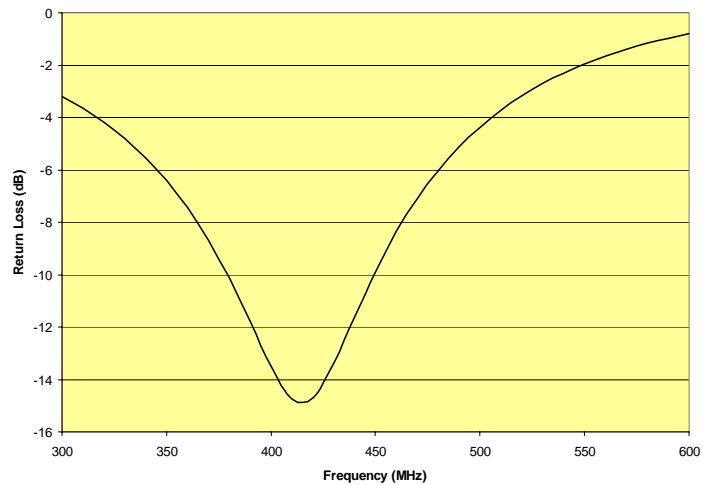
Model Numbers

BW-420-450 Helmet worn
 BW-420-450-D Spatially diverse torso worn

Radiation Pattern



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 and tested 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 military radios transmitting up to 5 W power at 435 MHz.

* MicroLight is a registered trademark of Raytheon Company