

Multi-band L-, S-, and C-band Wearable Antenna



Features and Benefits

- 900MHz – 6 GHz wearable antenna
 - L-band
 - S-band
 - C-band
- Waterproof cover
- Flexible material
- Unobtrusive – does not hinder vision or movement
- Small and lightweight
- Can be integrated with
 - Helmet
 - Tactical Vest

The **octane** multi-band L-, S-, and C-band wearable antennas are the ideal antenna solution for users requiring wearable and covert antenna solutions. This body wearable antenna is fabricated using a state-of-the-art, thin flexible material that conforms to the exterior of tactical vests or can be covertly worn under outer wear. The lightweight, unobtrusive design, and flush mounting provide the most wearable friendly alternative to stub or whip antennas. For soldier or first responder applications, communications 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 unsurpassed range and coverage performance of the **octane** wearable antenna make it the preferred choice for multi-band applications.

Integrated with Helmet Cover



Integrated with Vest

Characteristics

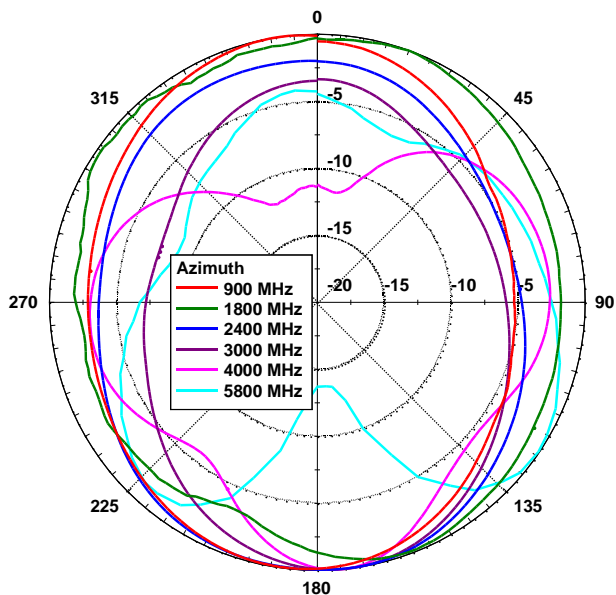
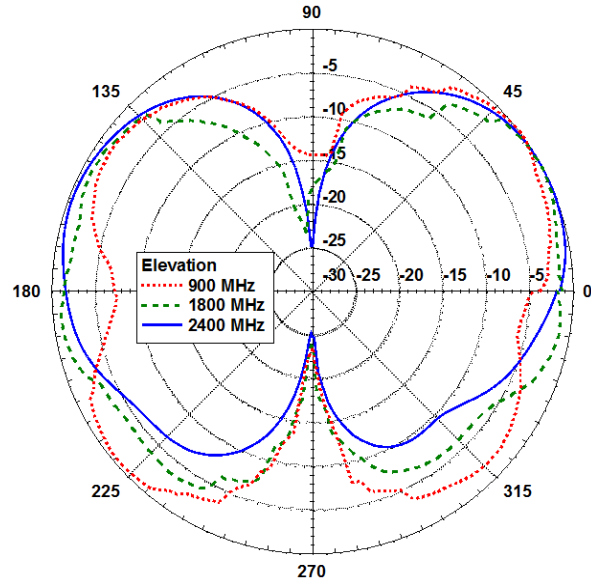
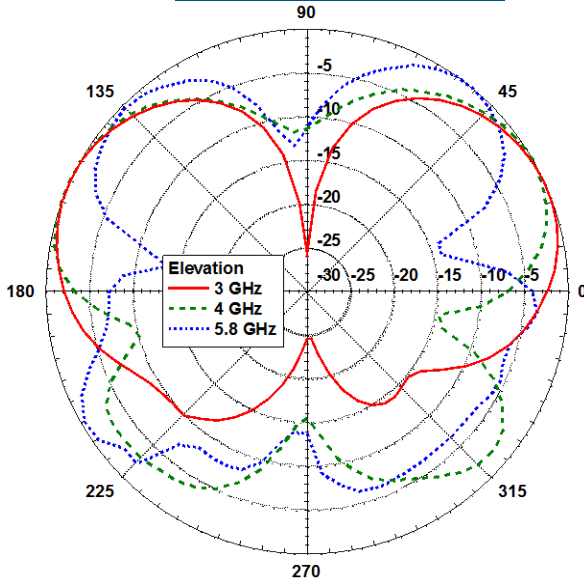
Frequency	900 - 6000 MHz
Efficiency	> 85%
Gain	0 dBi
Maximum Power	5 Watts
Pattern	Near omni
Polarization	Vertical
VSWR	< 2:1
Radiator Size (L x W x D)	3.3" x 3.3" x 0.3"
Cable Length	24"
Radiator Weight	< 2 ounces
Connector Type	SMA standard



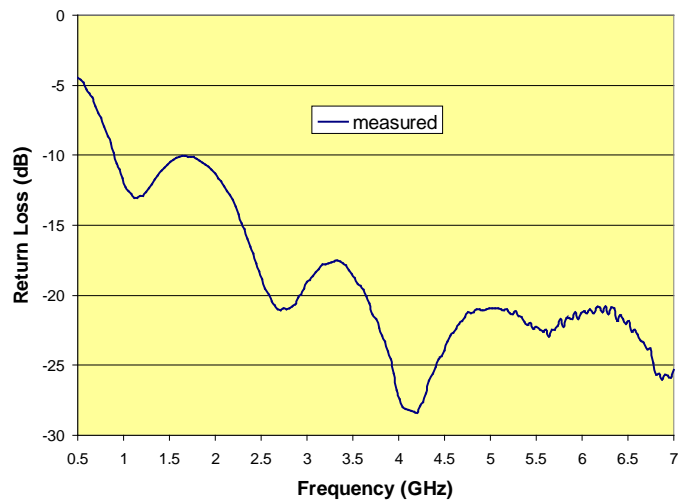
Model Numbers

- BW-900-6000 Single radiator, SMA connector
- BW-900-6000-D Spatially diverse torso worn, SMA
- BW-900-6000-T Single radiator, TNC connector
- BW-900-6000-M Single radiator, SMA, MOLLE carrier
- BW-900-6000-DTM Combines -D,-T, and -M models

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 military radios transmitting up to 5 W power at 1 GHz.

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