

WLAN Wearable Antenna PRR Wearable Antenna



Features and Benefits

- 2.4 GHz 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

Pharad's *octane*[®] wearable line of 2.4 GHz antennas is the ideal antenna solution for soldiers engaged in urban and combat missions requiring WLAN or Personal Role Radio (PRR) 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 *Flexenna*[®] flexible antenna technology. The lightweight, unobtrusive design, and flush mounting provide the most combat friendly alternative to stub or whip antennas. WLAN/PRR 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 standard SMA connector allows these antennas to easily connect to standard radios. The unsurpassed range and coverage performance of the *octane*[®] wearable antenna makes it the preferred choice for WLAN/PRR applications.

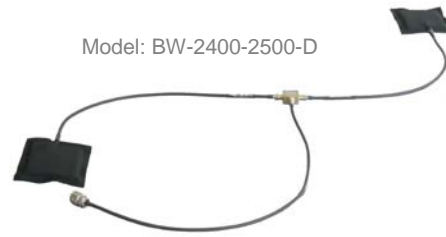
Covert Antenna/Radio Carrier



Integrated with Armor Vest

Characteristics

Model #	BW-2400-2500
Frequency	2.4 - 2.5 GHz
Efficiency	> 85%
Gain[†]	0 dBi
Maximum Power	5 Watts
Pattern	Near omni
Polarization	Vertical
VSWR[†]	< 2:1
Radiator Size (L x W x D)	3.6" x 3.3" x 0.3"
Cable Length	HW: 18" TW: 24"
Radiator Weight	< 2 ounces
Connector Type	SMA, other



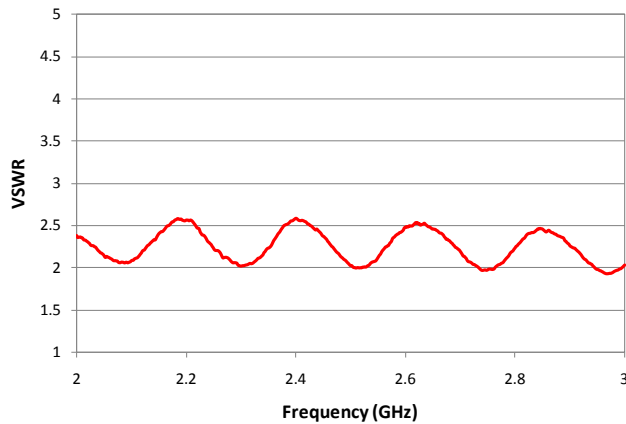
Model: BW-2400-2500-D

Model Numbers

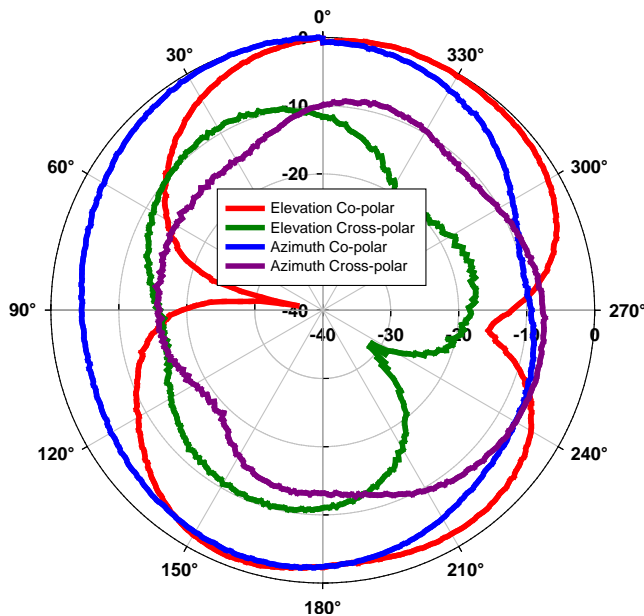
BW-2400-2500	Single radiator
BW-2400-2500-D	Spatially diverse, dual radiator
BW-2400-2500-DN	Spatially diverse, N-type connector

[†]Measured on phantom as surrogate body.

VSWR[†]



Radiation Pattern[†]



This antenna is intended for occupational use only to satisfy FCC RF energy exposure requirements. This 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 0.032 W power at 2400 MHz.

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