

# WLAN Wearable Antenna – Enhanced Gain, Dual Polarized



## Features and Benefits

- 2.4 GHz wearable antenna
- Enhanced gain
- Wearable with waterproof cover
- Thin and lightweight

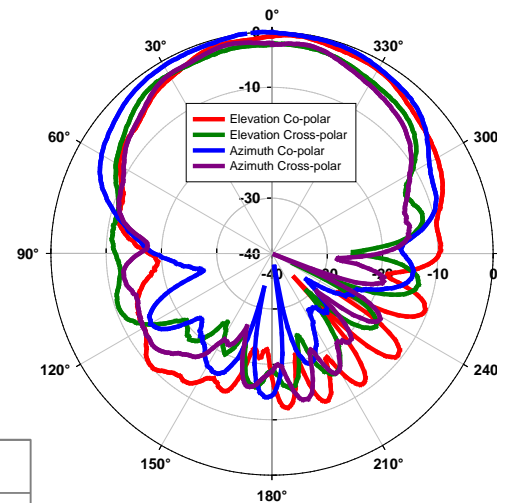
Pharad's *octane*<sup>®</sup> wearable 2.4 GHz antennas are the ideal wearable antenna solutions for users requiring WLAN or Personal Role Radio (PRR) connectivity and extended coverage. This body-worn antenna is fabricated using a state-of-the-art thin material that conforms to the exterior of body armor or tactical vests. The lightweight, unobtrusive design and flush mounting provide the user a friendly alternative to stub or whip antennas. WLAN/PRR link performance is maintained without hindering the soldier's vision or movement. A spatially diverse antenna system that further enhances link performance is also available. Available tactical vest antenna/radio carrier, MOLLE antenna carrier, and covert antenna carrier allows the antenna and radio to be easily worn. Their unsurpassed range and coverage performance make the *octane*<sup>®</sup> wearable antenna products the antenna of choice for 2.4 GHz communications applications.

## Characteristics

Frequency	2.4 – 2.49 GHz
Gain <sup>†</sup>	5 dBi @ 2.4 GHz
Efficiency	> 85%
Maximum Power	5 Watts
Pattern	Hemispherical
Polarization	Dual Linear
Radiator Size (L × W × D)	3.3" × 3.3" × 0.3"
Cable Length	16.5"
Radiator Weight	< 2 ounces
Connector Type	SMA

<sup>†</sup>Measured on phantom as surrogate body.

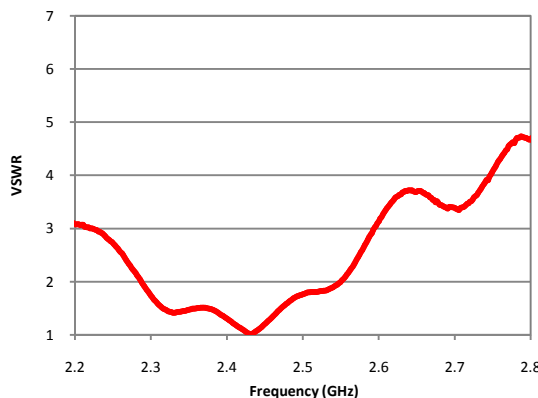
## Radiation Pattern<sup>†</sup>



## Covert Antenna/ Radio Carrier



## VSWR<sup>†</sup>



Model Number	Description
BW-2400-2500-EG	SMA Connector
BW-2400-2500-EGD	Diversity
BW-2400-2500-EGDN	Diversity, N-type Connector

These antennas are intended for occupational use only to satisfy FCC RF energy exposure requirements. These antennas have 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 5 W power at the antenna's operating frequencies. *octane* is a division of Pharad, LLC. *Octane* is a registered trademark of Pharad, LLC. Specifications subject to change without notice.

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