

475 MHz Wearable Antenna



Model: BW-470-480

Features and Benefits

- 475 MHz Wearable Antenna
- Waterproof cover
- Flexible material
- Unobtrusive
- Small and lightweight
- Can be integrated with
 - Helmet
 - Body Armor Vest Carrier

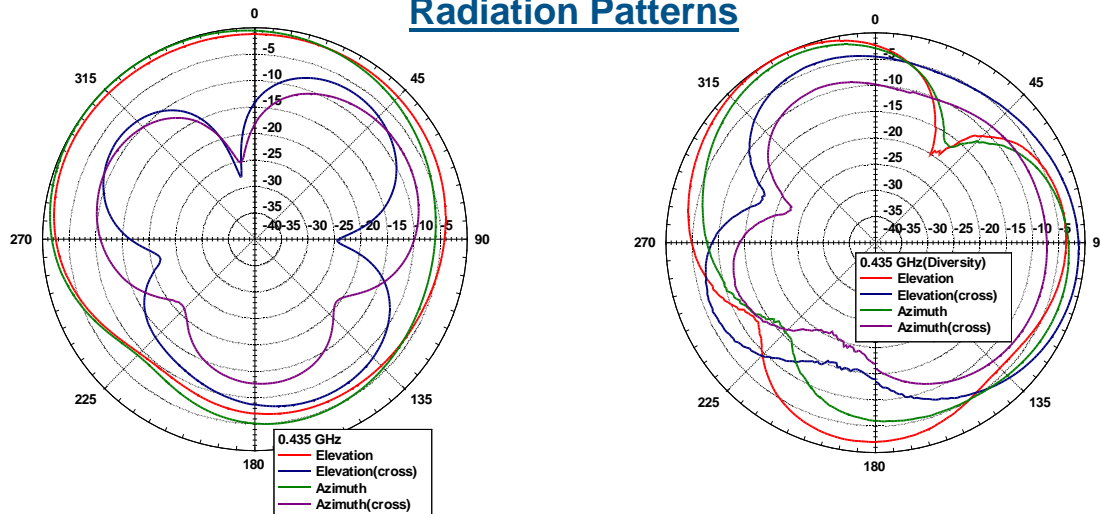
Pharad's *octane*[®] wearable 475 MHz antenna is the ideal antenna solution for soldiers engaged in urban and combat missions. This body wearable antenna is fabricated using a state-of-the-art, thin flexible material that conforms to the exterior of body armor or tactical vests. The unique form factor 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. Link performance is maintained without hindering the soldier's vision or movement. The antenna system comes standard with an SMA connector.

Characteristics

Model Number	BW-470-480
Frequency	470 – 480 MHz
Gain[†]	-3.8 dBi
VSWR[†]	< 2.5:1
Nominal Impedance	50 ohms
Pattern	Near omni-directional
Polarization	Vertical
Radiator Size (L x W x D)	4.0" x 3.5" x 0.4"
Cable Length	16.5"
Radiator Weight	1 oz.
Standard Connector Type	SMA

[†]Measurements done on phantom as surrogate body.

Radiation Patterns



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 radios transmitting up to 5 W of power at 435 MHz.