

Wideband Networking Wearable Antenna



Features and Benefits

- 225 – 2500 MHz antenna
- Wearable with waterproof cover
- Flexible material
- Thin and lightweight
- Can be integrated with
 - Tactical Vest
 - Body Armor Vest Carrier

Pharad's *octane*[®] wearable broadband antennas are the best performing small form factor antennas for operation at 225 to 2500 MHz. This body-worn antenna is fabricated using a state-of-the-art thin flexible material that slips easily into a tactical vest. 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 soldier/marine a friendly alternative to long whip antennas. Communications link performance is maintained without hindering the user's vision or movement. We also offer a dual radiator model that adds spatial diversity and further enhances link performance. The available connectors allow these antennas to easily connect to a variety of radios. An available tactical vest antenna/radio carrier allows the antenna and radio to be easily worn over clothing. Their unsurpassed range and coverage performance make the *octane*[®] wearable antenna products the antenna of choice for Wideband Networking communications applications.

Characteristics

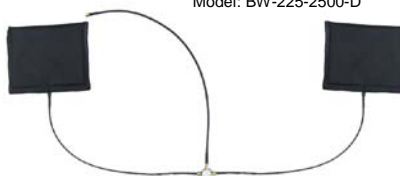
| Model Number | BW-225-2500 | BW-225-2500-D |
|---------------------------|--|---|
| Frequency | 225 – 2500 MHz | |
| Gain [†] | -6.5 dBi @ 225 MHz -5 dBi @ 450 MHz -1 dBi @ 900 MHz 0 dBi @ 1200 MHz 5 dBi @ 2500 MHz | -5.5 dBi @ 225 MHz -5 dBi @ 450 MHz -2 dBi @ 900 MHz -1 dBi @ 1200 MHz 0 dBi @ 2500 MHz |
| VSWR [†] | < 3.5:1, f > 450 MHz | < 2:1 |
| Nominal Impedance | 50 ohms | |
| Pattern | Near omni-directional | |
| Polarization | Linear | Dual [‡] |
| Radiator Size (L x W x D) | 7.0" x 9.0" x 0.4" | |
| Cable Length | 27.5" | 27.5" |
| Weight | 3.5 oz. | 8.5 oz. |
| Connector Type | SMA [*] | |

[†] Measured on phantom as surrogate body.

[‡] Dependent on orientation of two radiators.

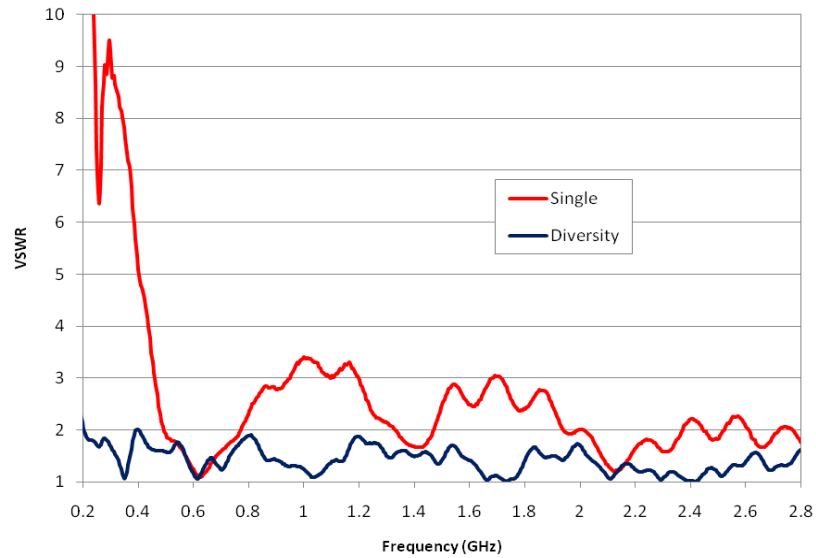
^{*} Other connector types available, including TNC, N, BNC

Model: BW-225-2500-D



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Typical VSWR†



Radiation Patterns for Single Radiator†

