

# JTRS 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**<sup>®</sup> 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 lightweight, unobtrusive design, and flush mounting provide the soldier/marine a friendly alternative to long whip antennas. JTRS 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**<sup>®</sup> wearable antenna products the antenna of choice for JTRS communications applications.

## Characteristics

Model Number	BW-225-2500	BW-225-2500-D
Frequency	225 – 2500 MHz	
Gain <sup>†</sup>	-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 <sup>†</sup>	< 3.5:1, f > 450 MHz	< 2:1
Nominal Impedance	50 ohms	
Pattern	Near omni-directional	
Polarization	Linear	Dual <sup>‡</sup>
Radiator Size (L x W x D)	7.0" x 8.0" x 0.4"	
Cable Length	24"	24"
Weight	3.5 oz.	8.5 oz.
Connector Type	SMA <sup>*</sup>	

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

<sup>‡</sup> Dependent on orientation of two radiators.

<sup>\*</sup> Other connector types available, including TNC, N, BNC



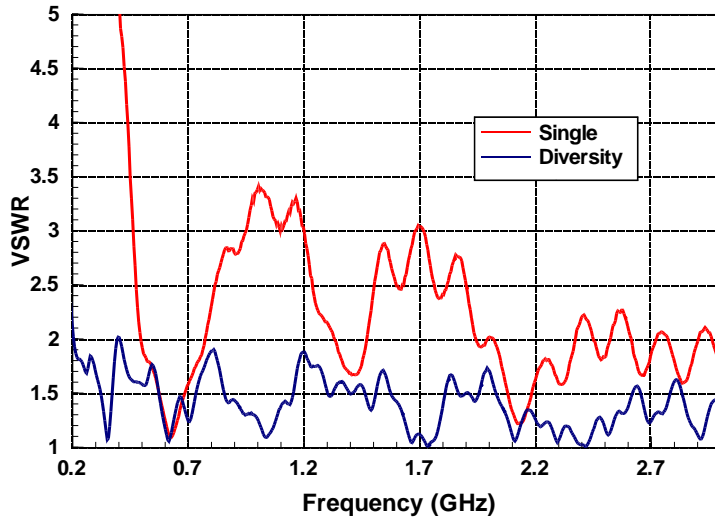
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### Typical VSWR†



### Radiation Patterns for Single Radiator†

