



### 2.4-2.5 & 5.1-5.9 GHz 9 dBi WALL MOUNTED DIRECTIONAL MIMO ANTENNA

The PVM245110 antenna is a dual-band 3-port directional antenna for use in 802.11n MIMO applications. Equipped with three Vertically polarized ports, the antenna has been designed to take advantage of spatial separation to enhance coverage areas where multipath is a concern. Housed in a compact, low-profile Polycarbonate Radome and equipped with an articulating arm the antenna can be wall mounted and oriented to take full advantage of the antenna's directionality.

The radiation patterns are uniform and symmetrical, providing high levels of signal density into defined coverage zones. This antenna will greatly enhance the performance of 802.11n systems where physical obstructions are anticipated. The dual band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 5.1-5.9 GHz bands.

#### FEATURES

- Compact low profile housing
- Equitable for both indoor and outdoor solutions
- Wide band 2.4-2.5 GHz and 5.1-5.9 GHz performance

#### MARKETS

- 802.11n MIMO
- Offices, hotels and college campuses
- Airports and hospitals
- Bus terminals and train stations
- Museums, libraries and retail malls
- Outdoor networks

#### TYPICAL ELECTRICAL SPECIFICATIONS

Model Number	PVM245110-FNF		
Frequency	2400-2500/ 5150-5900 MHz		
Maximum Gain, dBi	9.6/10.8 (Port A)	9.2/10.9 (Port B)	9.5/10.7 (Port C)
Typical Gain, dBi	9.2/8.7 (Port A)	8.7/8.3 (Port B)	9.1/8.5 (Port C)
Nominal Impedance	50Ω		
VSWR	< 2:1		
Polarization	Linear Vertical		
Isolation, dB	-16.1/-20.3 (Port A-B)	-16.1/-20.3 (Port B-C)	-23.7/-22.8 (Port A-C)
Azimuth Plane 3 dB Beam Width (deg)	75/141 (Port A)	97/98 (Port B)	77/145 (Port C)
Elevation Plane 3 dB Beam width (deg)	43/27 (Port A)	44/22 (Port B)	43/27 (Port C)
F/B Ratio, dB	24.5 (Port A)	19.8 (Port B)	27.7 (Port C)
Power	10 Watts		
RF Connector	Type N Female Bulkhead- 3x		
Radome	Polycarbonate EXL9330 White		
Operational Temperature	-30°C to +70°C		
Storage Temperature	-40°C to +85°C		
Water/Foreign Body Ingress	IP67		
Antenna Dimensions	7" x 12" x 1.0" (17.8 x 30.5 x 2.5 cm)		
Antenna Weight	0.69 kg		
RoHS Compliance	Yes		

#### CONNECTORS

Part No.	Connector
PVM245110	Surface Mount Type N- female

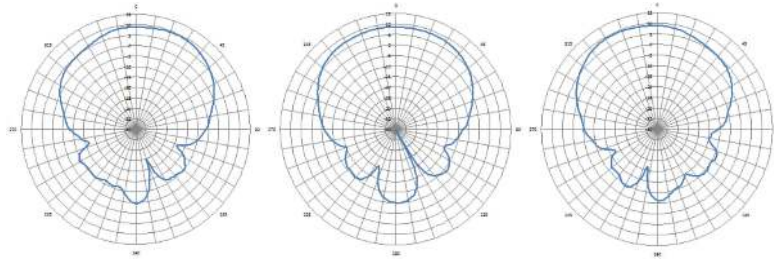
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**AZIMUTH PATTERNS: 2450 MHZ**

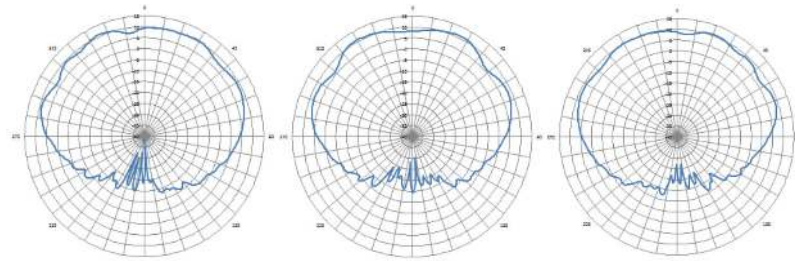


**Port 1: V-pol**

**Port 2: V-pol**

**Port 3: V-pol**

**AZIMUTH PATTERNS: 5550 MHZ**

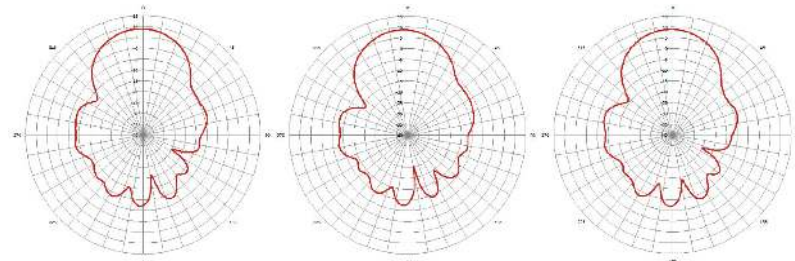


**Port 1: V-pol**

**Port 2: V-pol**

**Port 3: V-pol**

**ELEVATION PATTERNS: 2450 MHZ**

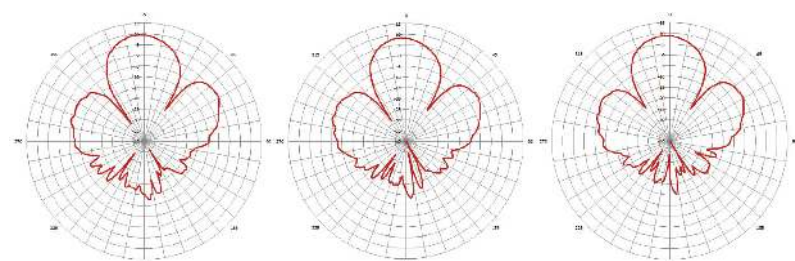


**Port 1: V-pol**

**Port 2: V-pol**

**Port 3: V-pol**

**ELEVATION PATTERNS: 5550 MHZ**



**Port 1: V-pol**

**Port 2: V-pol**

**Port 3: V-pol**

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