

Device Halfwave Antennas WiMAX & WiFi



- Up to 2.3 dBi gain styles with semi-flexible radome and adjustable knuckle
- Halfwave design requires no ground plane
- Models for WiFi 802.11 2.4 & 5 GHz and WiMAX 3.5 GHz
- Sleek molded profile, with a choice of SMA, TNC or Rev Polarity SMA connectors

These Halfwave Device antennas require no ground plane for operation. This makes them ideal for use with portable devices or products that have no substantial ground plane. They can even be used with products that consist of an all plastic chassis or case.

select models offer reverse polarity SMA or reverse polarity TNC connectors.

The PSKN Series antennas use a full length dipole configuration. A knuckle feature allows the antenna to be adjusted between a straight position, to a 90° right angle position.

The ability to bend the antenna between a straight and a right-angle position is useful for products that may be placed both horizontally and vertically, or where the connector is placed on the side of a radio device.

For applications requiring a device antenna in either a permanently straight or right angle position, please see Mobile Mark's PSN or PSNRA3 Series. These antennas have been molded into a permanent position.

Maximum radiation is achieved along the horizon, and bandwidth provided is substantial. VSWR is typically 2:1 or better over the desired frequency range. The antennas are available in many frequency bands, including a dual band series for 802.11a/b/g/n.

The radome is made of flexible Polyurethane. Standard connector styles available include TNC or SMA. For FCC part 15 compliance,

Model #	Typical Use	Frequency
Models with TNC Male Connectors		
PSKN3-2400T	802.11 WiFi b/g	2400-2485 MHz
PSKN3-3500T	3.5 GHz Broadband	3400-3700 MHz
Models with SMA Male Connectors		
PSKN3-2400S	802.11 WiFi b/g	2400-2485 MHz
PSKN3-24/55S	802.11 a/b/g/n/ac	2400-2485 MHz
Models with SMA Male Connectors, WiMAX		
PSKN3-3500S	3.5 GHz broadband	3400-3700 MHz
Models with Rev SMA Plug Connectors		
PSKN3-2400RS	802.11 b/g WiFi	2400-2485 MHz
PSKN3-24/55RS	802.11 a/b/g/n/ac	2400-2485 MHz & 5.0-6.0 GHz
Models with Rev TNC Plug Connectors		
PSKN3-2400RT	802.11b/g WiFi	2400-2485 MHz

Specifications

Frequency:	See above
Gain:	2.3 dBi max
VSWR:	2:1 over band
Impedance:	50 Ohm nominal
Maximum Power:	10 Watts
Connector:	See models above
Temperature Range:	-40°C to +85°C

Whip Length Straight:	
PSKN3-2400:	6 1/2 in (165 mm)
PSKN3-3500:	3 7/8 in (99 mm)
PSKN3-24/55:	3 7/8 in (99 mm)

Whip Length 90°:	
PSKN3-2400:	5 3/4 in (146 mm)
PSKN3-3500:	3 1/8 in (79 mm)
PSKN3-24/55:	3 1/8 in (79 mm)
Right Angle Standoff:	
PSKN3-2400	1 1/4" inside (32 mm) clearance
PSKN3-3500	13/16" inside (21 mm) clearance
PSKN3-24/55	13/16" inside (21 mm) clearance

Case Material:	Polyurethane
Shock & Vibration:	EN 61373, IEEE 1478, MIL-810G
Water Ingress:	IPx5