



Device Antennas, Halfwave Single-band 806-1990 MHz

- Up to 2.3 dBi gain styles with semi-flexible radome and adjustable knuckle
- Halfwave design requires no ground plane
- Models for all GSM/CDMA modems
- Sleek molded profile, with a choice of SMA or TNC connectors

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

The PSKN Series antennas use a full length center fed dipole configuration. A knuckle feature allows the antenna to be adjusted between a straight position, to a 90° right angle position. This is useful for products that may need to be placed both horizontal and vertical, or where the connector is placed on the side of a radio device.

The PSN3 Series antennas offer the same electrical characteristics as the PSKN3 antennas, but they have a permanently fixed straight 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 popular frequency bands.

The radome is made of flexible Polyurethane. Standard connector styles available include TNC or SMA. For FCC part 15 compliance, select models offer reverse polarity connectors.

Both Series meet industrial and military shock & vibration specs. the PSKN3 Series is rate IPx5 for water ingress. The PSN3 has a higher water-resistance and is rated IPx7.

Model #	Application	Frequency
<u>TNC Plug (Male) Connectors</u>		
PSKN3-900T	US Cellular	806-894 MHz
PSKN3-925T	EU GSM/ISM 915	870-960 MHz
PSKN3-1800T	EU DCS-1800	1710-1880 MHz
PSKN3-1900T	US 1.9 GHz PCS	1850-1990 MHz
PSN3-925T	ISM 915 band	870-960 MHz
PSN3-900T	US Cellular	806-894 MHz
PSN3-915T	ISM 915 band	870-960 MHz
PSN3-1800T	EU DCS-1800	1710-1880 MHz
<u>SMA Plug (Male) Connectors</u>		
PSKN3-900S	US Cellular	806-894 MHz
PSKN3-925S	EU GSM/ISM 915	870-960 MHz
PSKN3-1800S	EU DCS-1800	1710-1880 MHz
PSKN3-1900S	US 1.9 GHz PCS	1850-1990 MHz
PSN3-925S	ISM 915 band	870-960 MHz
PSN3-1800S	EU DCS-1800	1710-1880 MHz
PSN3-1900S	US 1.9 GHz PCS	1850-1990 MHz
PSN3-900S	US Cellular	806-894 MHz
<u>Rev SMA Plug (Male) Connectors</u>		
PSKN3-925RS	ISM 915 band	870-960 MHz
PSN3-925RS	ISM 915 band	870-960 MHz
<u>Rev TNC Plug (Male) Connectors</u>		
PSKN3-925RT	ISM 915 band	870-960 MHz
PSN3-925RT	ISM 915 band	870-960 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
Whip Length Straight:	
900 & 925 Series	9" (229 mm) when straight
1800 & 1900 Series	7.8" (198 mm) when straight
Case Material:	Polyurethane
Operating Temp:	-40° to +85° C

Whip Length 90°:	
900 & 925 Series	7.9" (201mm) when right angle
1800 & 1900 Series	6.5" (165 mm) when right angle
PSN3 Series	Straight only
Right Angle Standoff:	1.25" (32 mm) inside elbow 1.75" (45 mm) outside elbow
Shock & Vibration:	
PSKN3 & PSN3	EN 61373, IEEE 1478, MIL-810G, TIA-329.2-C
Water Ingress:	PSKN3: IPx5; PSN3: IPx7