



PSKN Adjustable Series



SMA (L) & TNC (R)
versions

1/2 wave Device Antennas

90° Adjustable Knuckle Antennas

- Up to 2.3 dBi gain styles with semi-flexible radome and adjustable knuckle
- Halfwave design requires no groundplane
- Models for popular bands including Cellular, Mobitex, ISM, GSM, 802.11
- Sleek molded profile, with a choice of SMA or TNC connectors

These antennas require no ground plane for operation. This makes them ideal for use with portable devices or products with no substantial groundplane. 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.

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.

Model Numbers - TNC Male Connectors

Model	Typical Use	Frequency
PSKN3-900T	US Cellular/CDPD	824-894 MHz
PSKN3-925T	EU GSM/Mobitex	870-960 MHz
PSKN3-1800T	EU DCS-1800	1710-1880 MHz
PSKN3-1900T	US PCS/GPRS	1850-1990 MHz
PSKN3-2400T	802.11b WLAN	2400-2485 MHz

Model Numbers - SMA Male Connectors

PSKN3-900S	US Cellular/CDPD	824-894 MHz
PSKN3-925S	EU GSM/Mobitex	870-960 MHz
PSKN3-1800S	EU DCS-1800	1710-1880 MHz
PSKN3-1900S	US PCS/GPRS	1850-1990 MHz
PSKN3-2400S	802.11b WLAN	2400-2485 MHz

Model Numbers - Rev SMA Plug Connectors

PSKN3-925RS	US PCS/GPRS	870-960 MHz
PSKN3-2400RS	802.11b WLAN	2400-2485 MHz

Special configurations including reverse gender & special frequencies may be available upon request. Please consult factory for details/availability. Models with "-925 designators also overlap the ISM 902-928 band.

Specifications

Frequency:	See above
Gain:	2.3 dBi max
VSWR:	2.0:1 over band
Impedance:	50 Ohm nominal
Maximum Power:	10 Watts
Connector:	See models above
Whip Length Straight:	
900 & 925 Series	9" in straight position
1800 & 1900 Series:	7.75" in straight position
2400 Series:	7" in straight position

Whip Length 90°:	
900 & 925 Series	7.9" in right angle position
1800 & 1900 Series:	6.5" in right angle position
2400 Series:	5.75" in right angle position
Right Angle Standoff:	1.25" inside clearance, 1.75" outside clearance
Whip Material:	Polyurethane

Please consult factory for special configurations & frequency bands.



PTSG Series Dual Band Antennas

1/4 wave Device Antennas

Dual Band for Cellular & PCS/DCS-1800

- Sleek profile with small SMA connectors
- Compact helical design with high performance
- Perfect for dual band wireless handset and GPRS data units
- Tough polyurethane radome resists impact damage

These quarterwave stubby antennas offer high performance with the minimum of size. The helical design of the antennas results in a compact length that is only 1 3/4" in length. The sleek profile pairs well with a wide variety of devices.

Different dual band combinations are offered, providing maximum of flexibility to meet different requirements. Typical popular combinations include US AMPS Cellular with PCS (GPRS), or International GSM with DCS-1800. Other cross continent combinations are available, please consult factory for details. The antennas are available with an SMA Male connector. The connector is lightly knurled for easy tightening.

The antenna radomes are made from polyurethane, which provided a protective, waterproof covering. It is a solid material, which provides some flexibility. This makes these antennas suitable for devices such as access points, or hand-held portable units.

As helical antennas, the ground plane in the device influences the performance of these quarterwave antennas. The specific radiation characteristics depends on the total configuration of the unit when interfaced with the

antenna. How the wireless device is mounted or handled can also influence the radiation characteristics. For larger volume/OEM applications, performance can be optimized with a one time factory adjustment. Please contact us for further details.

Model Numbers - Straight Antennas

Model	Frequency Band
PSTG0-900/1900S	824-894 MHz & 1850-1990 MHz
PSTG0-925/1800S	890-960 MHz & 1710-1880 MHz
PSTG0-925/1900S	890-960 MHz & 1850-1990 MHz
PSTG0-1950/2140S	1920-1980 MHz & 2110-2170 MHz

Frequency Guide

-900 Models	For US Cellular (Analog & Digital), CDPD
-925 Models	For EU Cellular, ISM, Mobitex & RAM
/1800	For DCS-1800
/1900	For US PCS (& GPRS)
-1950/2140	For 3G applications

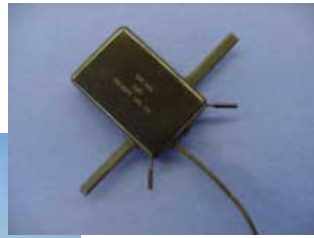
Special configurations available upon request. Please consult factory for details/availability.

Specifications

Frequency:	See above	Connector:	SMA Male (plug)
Gain:	0 dBi max	Whip Length:	1 3/4" inches (4.5 cm)
Bandwidth@2:1SWR:	See freq range above	Radome Material:	Polyurethane, with black matt finish, and knurled connector
Impedance:	50 Ohm nominal		
Maximum Power:	10 Watts		
Operating Temp:	-22°F to 140°F		



CVT Series Covert Antennas



CVX Series
Dual Band
Covert Antennas

Covert Cellular Antenna

For Cellular/CDPD, GSM, ISM & Mobitex

- Halfwave 2 dB gain styles with flexible radome
- Low profile; perfect for Covert use
- Fully waterproof & durable radome
- Models for popular frequency bands from 800 MHz to 1.9 GHz

These antennas have been designed for covert use in a vehicle. The CVT Series consists of a rubber duck style antenna with a pencil thin slim-line radome and a cable pigtail for easy connection. The antenna provides 2 dBi gain performance.

The CVX covert series antennas operate on both 900 & 1900 MHz bands. It incorporates a 1/2 wave design that provides a shorter, but wider profile than the CVT style.

The antennas are ground plane independent and can be mounted in a variety of locations; both inside and outside a vehicle. They can be installed behind a rearview mirror, under a dashboard or rear window deck/shelf. For external applications, appropriate locations might include under rubber bumper strips, or inside side mirrors. The antennas are fully waterproof.

When mounting the antenna, care should be taken to ensure the antenna is positioned so that no metal or metalized finish obstructs the radiation pattern of the antenna.

The CVT series is covered with a black flexible Santoprene radome. The CVX series utilizes a small ABS case, with semiflexible radiators.

The CVT antenna is provided with 8 ft of RG-174 cable. The CVX series is normally supplied with 15ft of RG-174. Most popular connectors are available.

Model Numbers

Model	Band(s)	Connector
CVT-900S	Cellular/CDPD	SMA
CVT-900T	Cellular/CDPD	TNC
CVT-925S	GSM/ISM/Mobitex	SMA
CVT-925T	GSM/ISM/Mobitex	TNC
CVX-900/1900S	Cellular/PCS/GPRS	SMA
CVX-900/1900T	Cellular/PCS/GPRS	TNC
CVX-925/1900S	GSM/Mobitex/PCS	SMA
CVX-925/1900T	GSM/Mobitex/PCS	TNC

Special configurations available upon request. Please consult factory for details/availability.

Specifications

Frequency:

Cellular/CDPD	824-894 MHz
GSM (& ISM/Mobitex)	870-960 MHz
PCS/GPRS	1850-1990 MHz

Gain:

2.3 dBi max

Bandwidth@2:1 VSWR:

See freq range above

Impedance:

50 Ohm nominal

Maximum Power:

10 Watts

CVT Series Whip Length:

GSM (870-960 MHz)	7" (177mm)
AMPS (824-894 MHz)	8" (205mm)

CVX Series Dimensions: 2" x 2 3/8 x 5/8" case
4.5" W semi-flex wings

Cable:

CVT Series 8 ft, RG-174

CVX Series 15 ft RG-174

Connectors:

See above, inquire for other options

Material:

CVT Series Santoprene radome

CVX Series ABS case, Santoprene wings