



HSTN Series
1/2 Wave Antennas



PSTN2 Series
1/2 Wave Antennas

Rubber Duck/Portable Antenna Series

For 900 MHz - 2.4 GHz Applications

- Up to 2.5 dBi gain (max) styles with molded radome
- Halfwave design requires no groundplane
- Models for Mobitex, ISM, GSM, PCS & 2.4 GHz systems
- Sleek molded profile, with a variety of connector styles

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 HSTN Series antenna uses a full length center fed dipole configuration. 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 from 870 MHz - 2.4 GHz. The radome on the HSTN3 Series is made of molded ABS plastic. This material is semirigid and extremely durable. Standard connector styles available include TNC or SMA.

The PSTN2 Series uses an end-fed loaded halfwave design. These also do not require a groundplane to achieve proper resonance. This halfwave design uses a helically loaded element. This reduces the size of the

antenna with a minimal sacrifice in performance. Expected gain is 1-2 dBi. The radome on this series is flexible molded Vitacom TPE. Connector available is male SMA.

Model Numbers - Straight Antennas

Model	Frequency	Connector
HSTN3-915T	900-940 MHz	Male TNC
HSTN3-915S	900-940 MHz	Male SMA
HSTN3-925T	870-960 MHz	Male TNC
HSTN3-925S	870-960 MHz	Male SMA
HSTN3-2400T	2.4-2.485 GHz	Male TNC
HSTN3-2400S	2.4-2.485 GHz	Male SMA
PSTN2-900S	824-894 MHz	Male SMA
PSTN2-915S	900-940 MHz	Male SMA
PSTN2-925S	870-960 MHz	Male SMA

Special configurations including reverse gender & special frequencies may be available upon request. Please consult factory for details/availability.

Specifications

Frequency:	See above
Gain:	
HSTN3 Series	2.5 dBi max
PSTN2 Series	2 dBi max, 1 dBi typical
VSWR:	
HSTN3	2:1 over band
PSTN2	2.5:1 over band
Impedance:	50 Ohm nominal
Maximum Power:	10 Watts
Connector:	See models above

Whip Length:

HSTN3-915 Series:	9" approx (connector variations)
HSTN3-925 Series :	8" approx (connector variations)
HSTN3-2400 Series:	5" approx (connector variations)
PSTN2 Series:	3" (SMA Male connector only)

Whip Material:

HSTN3 Series	Semirigid ABS plastic
PSTN2 Series	Molded Vitacom TPE

Please consult factory for special configurations & frequency bands.