

Quarterwave Device Antenna Rubber duck style, 420-470 MHz



TNC
Plug (Male)

- Flexible, rubber duck style device antenna
- Quarterwave design; 2 dBi gain
- Frequency range of 420-470 MHz
- Ideal for wireless networks at 433 MHz

The PSTG2-433T device antennas were designed for wireless transmitters and receivers operating at 433 MHz. The antennas can also be used for UHF systems operating in the 420-470 MHz band.

Due to their small size, these antennas are well suited for wireless devices such as access points, or hand-held portable units.

These quarterwave antennas provide high performance with a compact and relatively short profile. The PSTG2-433T antenna measures only 6.13" (155 mm) in length with a whip diameter of .25" (6mm). The diameter at the base of the antenna, i.e. at the connector, is 0.6" (14mm).

The PSTG2-433T is a fixed vertical antenna. If installed on a fixed location or as an access point, it should be installed in a vertical position.

The PSTG2-433T offers 2 dBi gain with a VSWR rating less than 2:1 over the entire band.

The antenna is vertically polarized with a 360 degree omnidirectional pattern.

A number of factors can influence the radiation characteristics of a device antenna, such as the way the device is handled or where the device is mounted.

Quarterwave antenna designs, such as the PSTG2-433T, require a groundplane for optimal performance. There is generally enough

metal in the wireless device itself to provide an adequate ground-plane.

The PSTG2-433T antenna is constructed with a TNC plug (male) connector to match-up the TNC jack (female) connector on the wireless device/radio.

The connector housing on the PSTG2-433T turns independently from the whip portion of the antenna. This allows the installer to hold the body of the antenna in place and to twist the connector housing to attach the antenna to the device. This system establishes a firm connection between the antenna and device.

The antenna radome is made from flexible black polyurethane. In addition to being very flexible, this material provides a protective, water-resistant covering.

The antenna operates from -40°C to +85°C. The flexible material protects it from damage due to rough treatment.

This attractive antenna features two small blue bands on the cap of the antenna, so that the antenna frequency and style can be easily coded.

Model #	Gain	Connector:
PSTG2-433T	2 dBi	TNC Plug

Specifications			
Frequency:	420-470 MHz	Operating Temp:	-40° to +85° C
Gain:	2 dBi	Material:	Polyurethane (Black)
Polarization:	Vertical	Dimensions:	6.13" H x .25" D (155 mm x 6 mm)
Impedance:	50 OHM Nominal	Connector:	TNC Plug
Radiation Pattern:	Omnidirectional	Water Ingress:	IPx5
VSWR:	2:1 max over range		
Max Power:	5 Watts		