

# 5NPX1006F

10-port multibeam antenna, 10x 1710–2180 MHz, 5x 10–14° HPBW, fixed electrical tilt



## Electrical Specifications

Frequency Band, MHz	1710–1920	1920–2180
Gain, dBi	21.7	22.3
Beamwidth, Horizontal, degrees	13	12
Beamwidth, Vertical, degrees	11.9	10.9
Beam Tilt, degrees	6	6
USLS (First Lobe), dB	14	16
Front-to-Back Ratio at 180°, dB	32	34
CPR at Boresight, dB	10	10
Isolation, Same Beam, dB	25	25
VSWR   Return Loss, dB	1.43   15.0	1.43   15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	±45°	±45°
Impedance	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	1710–1920	1920–2180
Gain by all Beam Tilts, average, dBi	20.7	21.3
Gain by all Beam Tilts Tolerance, dB	±2	±1.7
Beamwidth, Horizontal Tolerance, degrees	±2.1	±1.7
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7
USLS, beampeak to 20° above beampeak, dB	17	18
Front-to-Back Total Power at 180° ± 30°, dB	30	32
CPR at Boresight, dB	9	10

\* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

## General Specifications

<b>Operating Frequency Band</b>	1710 – 2180 MHz
<b>Antenna Type</b>	Multibeam
<b>Band</b>	Single band
<b>Performance Note</b>	Outdoor usage

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## Mechanical Specifications

<b>RF Connector Quantity, total</b>	10
<b>RF Connector Quantity, high band</b>	10
<b>RF Connector Interface</b>	7-16 DIN Female
<b>Color</b>	Gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Brass   Low loss circuit board
<b>Radome Material</b>	ASA, UV stabilized
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	931.0 N @ 150 km/h 209.3 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	250 km/h   155 mph

## Dimensions

<b>Length</b>	889.0 mm   35.0 in
<b>Width</b>	864.0 mm   34.0 in
<b>Depth</b>	202.0 mm   8.0 in
<b>Net Weight, without mounting kit</b>	30.0 kg   66.1 lb

## Packed Dimensions

<b>Length</b>	1038.0 mm   40.9 in
<b>Width</b>	977.0 mm   38.5 in
<b>Depth</b>	349.0 mm   13.7 in
<b>Shipping Weight</b>	47.0 kg   103.6 lb

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Below Maximum Concentration Value (MCV)
CE	Compliant with the relevant CE product directives



## Included Products

T-045-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (50-115mm) OD round members for panel antennas. Includes 2 clamp sets.

## \* Footnotes

### **Performance Note**

Severe environmental conditions may degrade optimum performance