

# CNLPX3055F



2-port stadium sector antenna, 2x (790–960, 1710–2170, & 2300–2690 MHz), 50° HPBW. This triband antenna produces rectangular patterns with sharp cutoff for illuminating a section of the crowd. The three bands are internally triplexed, allowing a dual connector interface to be used.

- The antenna includes an internal triplexer for a set of  $\pm 45^\circ$  RF input ports for 2x2 MIMO capabilities

## Electrical Specifications

Frequency Band, MHz	790–960	1710–2170	2300–2690
Gain, dBi	11.2	11.4	11.7
Beamwidth, Horizontal, degrees	55	49	47
Beamwidth, Horizontal at 20 dB, degrees	90	81	79
Beamwidth, Vertical, degrees	55.0	48.5	47.4
Beam Tilt, degrees	0	0	0
USLS (First Lobe), dB	25	20	22
Front-to-Back Ratio at 180°, dB	39	40	38
CPR at Boresight, dB	20	23	18
CPR at 3 dB Horizontal Beamwidth, dB	18	15	18
Isolation, Cross Polarization, dB	30	30	30
Isolation, Inter-band, dB	30	30	30
VSWR   Return Loss, dB	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	100	100	100
Polarization	$\pm 45^\circ$	$\pm 45^\circ$	$\pm 45^\circ$
Impedance	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	790–960	1710–2170	2300–2690
Gain by all Beam Tilts, average, dBi	10.9	11.4	11.4
Gain by all Beam Tilts Tolerance, dB	$\pm 0.7$	$\pm 0.9$	$\pm 0.9$
Beamwidth, Horizontal Tolerance, degrees	$\pm 4$	$\pm 5$	$\pm 4.3$
Beamwidth, Vertical Tolerance, degrees	$\pm 4.3$	$\pm 5.3$	$\pm 4.2$
USLS, beampeak to 20° above beampeak, dB	25	15	16
Front-to-Back Total Power at 180° $\pm 30^\circ$ , dB	32	34	34
CPR at Boresight, dB	20	19	20

\* 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

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<b>Operating Frequency Band</b>	1710 – 2170 MHz   2300 – 2690 MHz   790 – 960 MHz
<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	2
<b>RF Connector Interface</b>	7-16 DIN Female
<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>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Rear   Side
<b>RF Connector Quantity, diplexed low and high bands</b>	2
<b>Wind Loading, lateral</b>	1452.0 N @ 150 km/h 326.4 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	160 km/h   99 mph

## Dimensions

<b>Length</b>	1354.0 mm   53.3 in
<b>Width</b>	853.0 mm   33.6 in
<b>Depth</b>	210.0 mm   8.3 in
<b>Net Weight, without mounting kit</b>	37.0 kg   81.6 lb

## Packed Dimensions

<b>Length</b>	1464.0 mm   57.6 in
<b>Width</b>	990.0 mm   39.0 in
<b>Depth</b>	411.0 mm   16.2 in
<b>Shipping Weight</b>	55.0 kg   121.3 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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	Above Maximum Concentration Value (MCV)
CE	Compliant with the relevant CE product directives



## Included Products

F-122-GL — Fixed Tilt Pipe Mounting Kit for 2.9"-4.5" (75-115mm) OD round members for panel antennas. Includes 2 clamp sets.

## \* Footnotes

**Performance Note**      Severe environmental conditions may degrade optimum performance