

# CNLPX3055F



2-port stadium sector antenna, 2x (790–960, 1710–2170, & 2300–2690 MHz), 50° HPBW.

- The antenna includes an internal triplexer for a set of ±45° RF input ports for 2x2 MIMO capabilities

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.

This product will be discontinued on: March 30, 2024

## General Specifications

|  |  |
|--|--|
| Antenna Type                                       | Sector   |
| Band   | Multiband  |
| Grounding Type                                     | RF connector inner conductor and body grounded to reflector and mounting bracket |
| Performance Note                                   | Outdoor usage  |
| Radome Material                                    | Fiberglass, UV resistant   |
| Radiator Material                                  | Brass   Low loss circuit board   |
| Reflector Material                                 | Aluminum   |
| RF Connector Interface                             | 7-16 DIN Female  |
| RF Connector Location                              | Rear   Side  |
| RF Connector Quantity, diplexed low and high bands | 2  |
| RF Connector Quantity, total                       | 2  |

## Dimensions

|                                  |                     |
|----------------------------------|---------------------|
| Width                            | 853 mm   33.583 in  |
| Depth                            | 210 mm   8.268 in   |
| Length                           | 1354 mm   53.307 in |
| Net Weight, without mounting kit | 37 kg   81.571 lb   |

## Electrical Specifications

|           |        |
|-----------|--------|
| Impedance | 50 ohm |
|-----------|--------|

# CNLPX3055F

|                          |   |
|--------------------------|---|
| Operating Frequency Band | 1710 – 2170 MHz   2300 – 2690 MHz   790 – 960 MHz |
| Polarization             | ±45°  |

## Electrical Specifications

| Frequency Band, MHz                     | 790–960    | 1710–2170  | 2300–2690  |
|---|------------|------------|------------|
| Gain, dBi                               | 11.2       | 11.4       | 11.7       |
| Beamwidth, Horizontal, degrees          | 55         | 49         | 47.4       |
| Beamwidth, Horizontal at 20 dB, degrees | 90         | 81         | 79         |
| Beamwidth, Vertical, degrees            | 55         | 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        |

## 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        | ±0.7    | ±0.9      | ±0.9      |
| Beamwidth, Horizontal Tolerance, degrees    | ±4.0    | ±5        | ±4.3      |
| Beamwidth, Vertical Tolerance, degrees      | ±4.3    | ±5.3      | ±4.2      |
| USLS, beampeak to 20° above beampeak, dB    | 25      | 15        | 16        |
| Front-to-Back Total Power at 180° ± 30°, dB | 32      | 34        | 34        |
| CPR at Boresight, dB                        | 20      | 19        | 20        |

## Mechanical Specifications

|                                  |   |
|----------------------------------|---|
| Wind Loading @ Velocity, lateral | 1,452.0 N @ 150 km/h (326.4 lbf @ 150 km/h) |
| Wind Speed, maximum              | 160 km/h (99 mph)                           |

## Packaging and Weights

# CNLPX3055F

|                |                     |
|----------------|---------------------|
| Width, packed  | 990 mm   38.976 in  |
| Depth, packed  | 411 mm   16.181 in  |
| Length, packed | 1464 mm   57.638 in |
| Weight, gross  | 55 kg   121.254 lb  |

## Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| CE            | Compliant with the relevant CE product directives  |
| CHINA-ROHS    | Below maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system   |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



## 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 |
|------------------|---|