

# CVVPX303F1



6-port sector antenna, 2x 790–960 and 4x 1710–2690 MHz, 65° HPBW, fixed electrical tilt

## Electrical Specifications

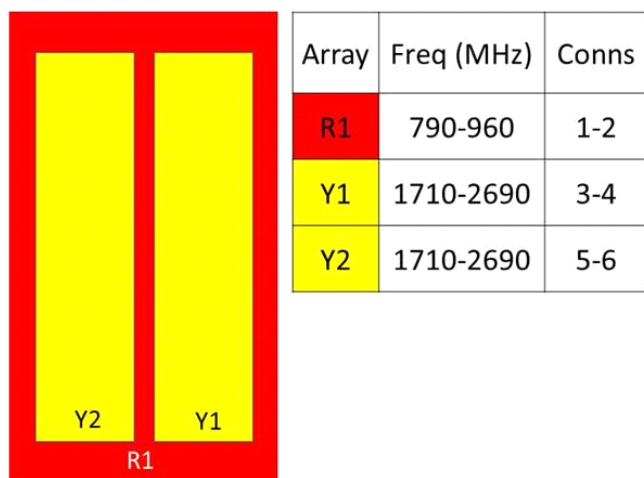
Frequency Band, MHz	790–890	890–960	1710–1920	1920–2180	2300–2690
Gain, dBi	10.9	11.5	13.2	13.9	14.2
Beamwidth, Horizontal, degrees	67	61	60	59	63
Beamwidth, Vertical, degrees	29.9	24.4	25.2	23.1	18.7
Beam Tilt, degrees	0	0	0	0	0
USLS (First Lobe), dB	17	21	27	20	19
Front-to-Back Ratio at 180°, dB	31	27	36	41	32
Isolation, Cross Polarization, dB	20	20	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30
VSWR   Return Loss, dB	1.43   15.0	1.43   15.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250		250
Input Power per Port at 50°C, maximum, watts				200	
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	790–890	890–960	1710–1920	1920–2180	2300–2690
Gain by all Beam Tilts, average, dBi	10.7	11.4	12.9	13.6	14.0
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.1	±0.4	±0.4	±0.4
Beamwidth, Horizontal Tolerance, degrees	±1.5	±1.8	±2.4	±2.2	±3.6
Beamwidth, Vertical Tolerance, degrees	±1.5	±0.6	±1.2	±1.6	±2.3
Front-to-Back Total Power at 180° ± 30°, dB	27	22	24	27	26
CPR at Boresight, dB	15	14	22	21	20
CPR at Sector, dB	11	10	8	9	9

\* 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](#).

## Array Layout



Left                      Right  
Bottom

(Sizes of colored boxes are not true depictions of array sizes)

## General Specifications

<b>Operating Frequency Band</b>	1710 – 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>	6
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, high band</b>	4
<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>Radome Material</b>	ASA, UV stabilized
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	359.0 N @ 150 km/h 80.7 lbf @ 150 km/h
<b>Wind Loading, lateral</b>	132.0 N @ 150 km/h 29.7 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	250 km/h   155 mph

## Dimensions

<b>Length</b>	861.0 mm   33.9 in
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**Width** 353.0 mm | 13.9 in  
**Depth** 209.0 mm | 8.2 in  
**Net Weight, without mounting kit** 11.0 kg | 24.3 lb

## Packed Dimensions

**Length** 1285.0 mm | 50.6 in  
**Width** 420.0 mm | 16.5 in  
**Depth** 320.0 mm | 12.6 in  
**Shipping Weight** 23.0 kg | 50.7 lb

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015  
China RoHS SJ/T 11364-2014  
CE

### Classification

Compliant by Exemption  
Designed, manufactured and/or distributed under this quality management system  
Above Maximum Concentration Value (MCV)  
Compliant with the relevant CE product directives



## Included Products

T-108-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.; Adjustable Tilt Pipe Mounting Kit for 3.0" (75mm) OD round members for panel antennas. Includes 2 clamp sets.; Omni Antenna Steering Pole

## \* Footnotes

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