

CVVPX303F1



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

Electrical Specifications

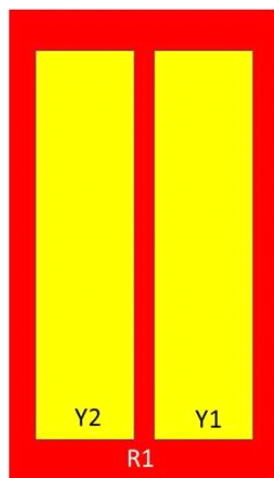
Frequency Band, MHz	790–890	890–960	1710–1920	1920–2180	2300–2690
Gain, dBi	10.9	11.5	13.2	13.9	14.2
Beamwidth, Horizontal, degrees	67	61	60	59	63
Beamwidth, Vertical, degrees	29.9	24.4	25.2	23.1	18.7
Beam Tilt, degrees	0	0	0	0	0
USLS (First Lobe), dB	17	21	27	20	19
Front-to-Back Ratio at 180°, dB	31	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



Array	Freq (MHz)	Conns
R1	790-960	1-2
Y1	1710-2690	3-4
Y2	1710-2690	5-6

Left Right
Bottom

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

General Specifications

Operating Frequency Band	1710 – 2690 MHz 790 – 960 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	6
RF Connector Quantity, low band	2
RF Connector Quantity, high band	4
RF Connector Interface	7-16 DIN Female
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radome Material	ASA, UV stabilized
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	359.0 N @ 150 km/h 80.7 lbf @ 150 km/h
Wind Loading, lateral	132.0 N @ 150 km/h 29.7 lbf @ 150 km/h
Wind Speed, maximum	250 km/h 155 mph

Dimensions

Length	861.0 mm 33.9 in
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CVVPX303F1

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

T-108-GL-E

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General Specifications

Application	Outdoor
Includes	Brackets Hardware
Package Quantity	1

Mechanical Specifications

Color	Silver
Material Type	Galvanized steel
Mechanical Tilt	0°-15°

Dimensions

Antenna-to-Pipe Distance	100.0 mm 3.9 in
Bracket-to-Bracket Distance	480.0 mm 18.9 in
Compatible Diameter, maximum	115.0 mm 4.5 in
Compatible Diameter, minimum	60.0 mm 2.4 in
Compatible Length, maximum	850.0 mm 33.5 in
Compatible Length, minimum	600.0 mm 23.6 in
Net Weight	5.5 kg 12.1 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	Above Maximum Concentration Value (MCV)

