

CVVPX303F1



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

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

RVVPX303.6F12R2 6-port sector antenna, 2x 694–960 and 4x 1710–2690 MHz, 65° HPBW, fixed electrical tilt (12°) low band, 2x RET on both high band arrays with a separate pair of AISG Input and Output ports per array.

General Specifications

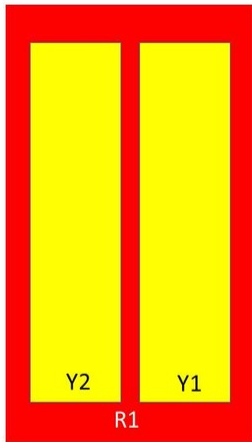
Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	ASA, UV stabilized
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Dimensions

Width	353 mm 13.898 in
Depth	209 mm 8.228 in
Length	861 mm 33.898 in
Net Weight, without mounting kit	11 kg 24.251 lb

Array Layout

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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)

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz 790 – 960 MHz
Polarization	±45°

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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	66.8	60.7	60	59.4	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	

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
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

Mechanical Specifications

Wind Loading @ Velocity, frontal	359.0 N @ 150 km/h (80.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	132.0 N @ 150 km/h (29.7 lbf @ 150 km/h)

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Wind Loading @ Velocity, rear	368.0 N @ 150 km/h (82.7 lbf @ 150 km/h)
Wind Speed, maximum	250 km/h (155 mph)

Packaging and Weights

Width, packed	420 mm 16.535 in
Depth, packed	320 mm 12.598 in
Length, packed	1285 mm 50.591 in
Weight, gross	23 kg 50.706 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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

T-108-GL-E	–	Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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