

CVVPX310R1



6-port sector antenna, 2x 790–960 and 4x 1710–2690 MHz, 65° HPBW, 3x RET with manual override.

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- All Internal RET actuators are connected in “Cascaded SRET” configuration

OBSOLETE

This product was discontinued on: June 30, 2018

Replaced By

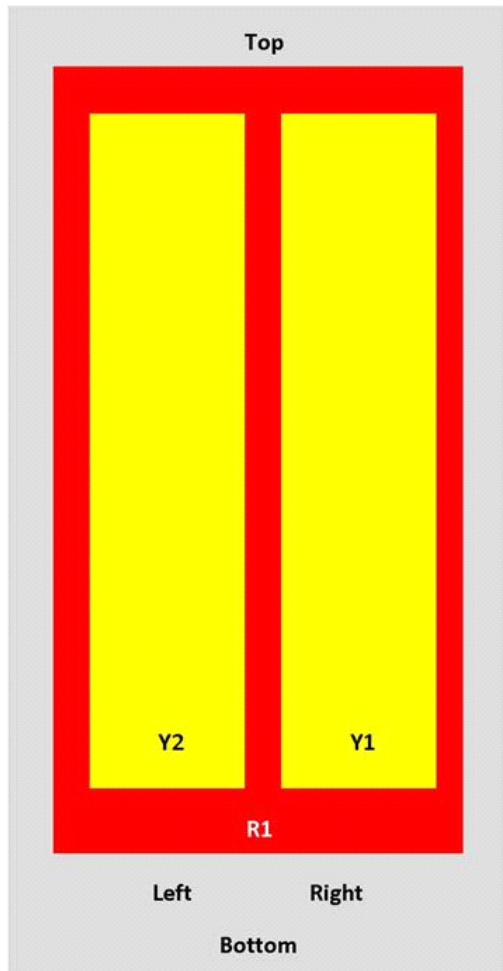
- RVVPX310.11R-V2 6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET with manual override.
- RVVPX310.11R-V3 6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET with manual override.

Electrical Specifications

Frequency Band, MHz	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	16.5	16.8	16.5	17.0	18.0
Beamwidth, Horizontal, degrees	64	62	60	60	62
Beamwidth, Vertical, degrees	8.8	8.0	8.2	7.2	5.8
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	25	25	25	25	25
Isolation, dB	25	25	25	25	25
Isolation, Intersystem, 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	250
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Array Layout

CVVPX



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	790-960	1-2	1	ARXXXXXXXXXXXXXXXXX1
Y1	1710-2690	3-4	2	ARXXXXXXXXXXXXXXXXX2
Y2	1710-2690	5-6	3	ARXXXXXXXXXXXXXXXXX3

View from the front of the antenna

(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

CVVPX310R1

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
RF Connector Location	Bottom
Wind Loading, maximum	1300.0 N @ 160 km/h 292.3 lbf @ 160 km/h
Wind Speed, maximum	200 km/h 124 mph

Dimensions

Length	2494.0 mm 98.2 in
Width	353.0 mm 13.9 in
Depth	209.0 mm 8.2 in
Net Weight, without mounting kit	31.0 kg 68.3 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

Packed Dimensions

Length	2680.0 mm 105.5 in
Width	420.0 mm 16.5 in
Depth	320.0 mm 12.6 in
Shipping Weight	35.0 kg 77.2 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



Included Products

T-029-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (50-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance