RVVPX305.10R3

6-port sector antenna, 2x 698–960 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

Electrical Specifications

Frequency Band, MHz	**698–790**	**790–890**	**890–960**	**1710–1920**	**1920–2170**	**2300–2690**
Gain, dBi	13.4	13.7	14.2	16.6	17.1	17.8
Beamwidth, Horizontal, degrees	68	69	63	62	63	61
Beamwidth, Vertical, degrees	20.2	18.1	16.6	8.3	7.3	6.0
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	18
Null Fill, dB				-22	-22	-22
Front-to-Back Ratio at 180°, dB	25	23	23	28	32	30
CPR at Boresight, dB	17	13	13	19	17	16
CPR at Sector, dB	10	10	9	7	5	5
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	28	30	30	27	28	30
VSWR | Return Loss, dB	1.43 | 15.0	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	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

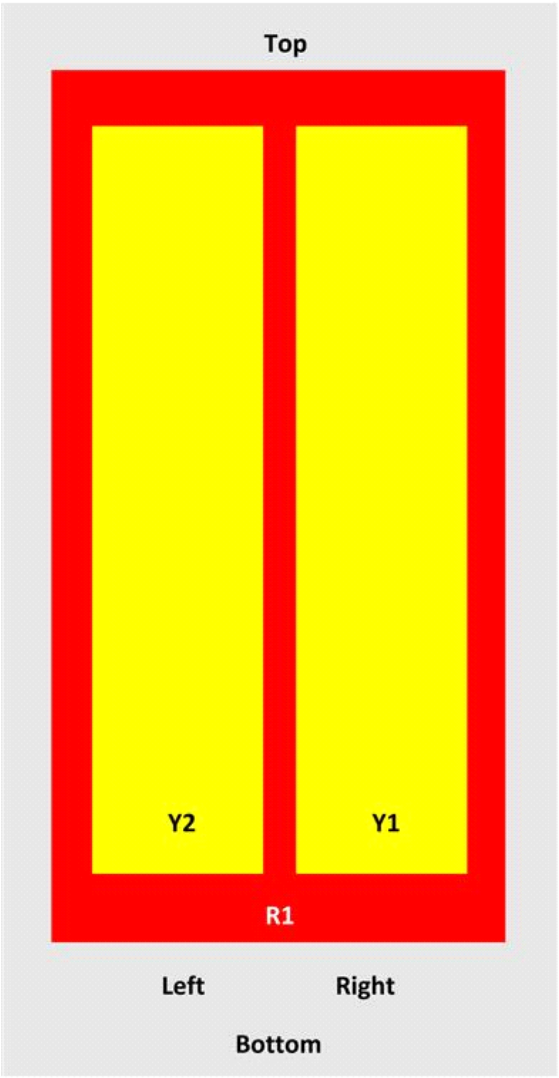
Electrical Specifications, BASTA*

Frequency Band, MHz	**698–790**	**790–890**	**890–960**	**1710–1920**	**1920–2170**	**2300–2690**
Gain by all Beam Tilts, average, dBi	13.2	13.5	14.0	16.3	16.8	17.4
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.3	±0.5	±0.4	±0.6
Gain by Beam Tilt, average, dBi	0 ° | 13.3 5 ° | 13.2 10 ° | 13.2	0 ° | 13.5 5 ° | 13.5 10 ° | 13.4	0 ° | 14.0 5 ° | 14.1 10 ° | 14.0	0 ° | 16.4 5 ° | 16.3 10 ° | 16.3	0 ° | 16.8 5 ° | 16.8 10 ° | 16.9	0 ° | 17.6 5 ° | 17.5 10 ° | 17.1
Beamwidth, Horizontal Tolerance, degrees	±1.6	±1.8	±2.1	±2.9	±5	±6.5
Beamwidth, Vertical Tolerance, degrees	±0.9	±1.1	±0.8	±0.6	±0.6	±0.5
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	24	22	23	23	25	26
CPR at Boresight, dB	18	13	14	21	18	18
CPR at Sector, dB	11	10	8	7	5	4

* 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

RVVPX305.10R3



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-960	1-2	1	ARxxxxxxxxxxxxxxxx1
Y1	1710-2690	3-4	2	ARxxxxxxxxxxxxxxxx2
Y2	1710-2690	5-6	3	ARxxxxxxxxxxxxxxxx3

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 | 698 – 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
RF Connector Location	Bottom
Wind Loading, frontal	575.0 N @ 150 km/h 129.3 lbf @ 150 km/h
Wind Loading, lateral	220.0 N @ 150 km/h 49.5 lbf @ 150 km/h
Wind Speed, maximum	250 km/h | 155 mph

Dimensions

Length	1380.0 mm | 54.3 in
Width	353.0 mm | 13.9 in
Depth	209.0 mm | 8.2 in
Net Weight, without mounting kit	20.0 kg | 44.1 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	3 female | 3 male

Packed Dimensions

Length	1560.0 mm | 61.4 in
Width	420.0 mm | 16.5 in
Depth	320.0 mm | 12.6 in
Shipping Weight	36.0 kg | 79.4 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

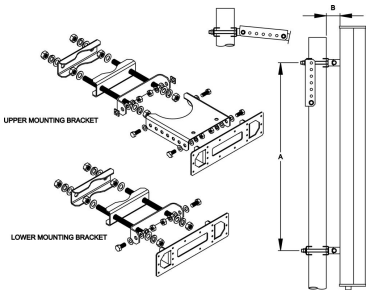
Included Products

T-041-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

T-041-GL-E



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

General Specifications

Application	Outdoor
Includes	Brackets | Hardware
Package Quantity	1

Mechanical Specifications

Color	Silver
Material Type	Galvanized steel
Mechanical Tilt	0°–12° in steps of 2°

Dimensions

Antenna-to-Pipe Distance	85.0 mm | 3.3 in
Bracket-to-Bracket Distance	976.0 mm | 38.4 in
Compatible Diameter, maximum	115.0 mm | 4.5 in
Compatible Diameter, minimum	50.0 mm | 2.0 in
Compatible Length, maximum	1500.0 mm | 59.1 in
Compatible Length, minimum	1200.0 mm | 47.2 in
Net Weight	5.5 kg | 12.1 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system