

# 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

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

## Remote Electrical Tilt (RET) Information

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

## Dimensions

<b>Width</b>	353 mm   13.898 in
<b>Depth</b>	209 mm   8.228 in

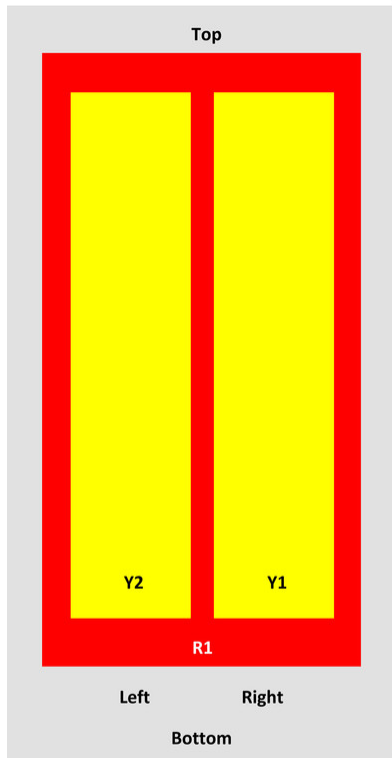
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**Length** 919 mm | 36.181 in

**Net Weight, without mounting kit** 13.3 kg | 29.321 lb

## Array Layout

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Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2		
Y1	1710-2690	3-4	1	ARXXXXXXXXXXXXX1
Y2	1710-2690	5-6	2	ARXXXXXXXXXXXXX2

View from the front of the antenna  
(Sizes of colored boxes are not true depictions of array sizes)

## Electrical Specifications

**Impedance** 50 ohm  
**Operating Frequency Band** 1710 – 2690 MHz | 694 – 960 MHz  
**Polarization** ±45°

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1710–1920	1920–2170	2300–2690
<b>Gain, dBi</b>	11.7	11.8	12.1	14.8	15.3	16.1

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<b>Beamwidth, Horizontal, degrees</b>	69	69	61	62	63	61.5
<b>Beamwidth, Vertical, degrees</b>	30.6	29.1	26.1	13.7	12.1	9.6
<b>Beam Tilt, degrees</b>	12	12	12	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	15	16	13	19	16	15
<b>Front-to-Back Ratio at 180°, dB</b>	26	22	25	29	32	31
<b>CPR at Boresight, dB</b>	17	18	19	20	18	17
<b>CPR at Sector, dB</b>	13	8	5	7	5	5
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30
<b>VSWR   Return loss, dB</b>	1.43   15.0	1.43   15.0	1.43   15.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	300	300	300	250	250	250

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>694–790</b>	<b>790–890</b>	<b>890–960</b>	<b>1710–1920</b>	<b>1920–2170</b>	<b>2300–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	11.5	11.5	11.7	14.6	14.9	15.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.3	±0.4	±0.4	±0.4	±0.5
<b>Gain by Beam Tilt, average, dBi</b>				0°   14.5 5°   14.5 10°   14.6	0°   14.9 5°   14.9 10°   15.0	0°   15.9 5°   15.8 10°   15.5
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.4	±2.4	±1.6	±2.5	±3.8	±5.1
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.7	±2.6	±2.8	±0.8	±1	±0.9
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	16	14	19	18	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	22	23	24	26	25
<b>CPR at Boresight, dB</b>	18	19	19	22	20	18
<b>CPR at Sector, dB</b>	14	8	6	8	5	5

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	383.0 N @ 150 km/h (86.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	135.0 N @ 150 km/h (30.3 lbf @ 150 km/h)

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<b>Wind Loading @ Velocity, rear</b>	393.0 N @ 150 km/h (88.3 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	250 km/h (155 mph)

## Packaging and Weights

<b>Width, packed</b>	430 mm   16.929 in
<b>Depth, packed</b>	330 mm   12.992 in
<b>Length, packed</b>	1110 mm   43.701 in
<b>Weight, gross</b>	27 kg   59.525 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# T-108-GL-E

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Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas.

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

## Product Classification

**Product Type** Adjustable tilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Length, maximum** 850 mm | 33.465 in

**Compatible Length, minimum** 600 mm | 23.622 in

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Antenna-to-Pipe Distance** 100 mm | 3.937 in

**Bracket-to-Bracket Distance** 480 mm | 18.898 in

**Weight, net** 5.5 kg | 12.125 lb

## Material Specifications

**Material Type** Galvanized steel

## Mechanical Specifications

**Mechanical Tilt** 0°–15°

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

## Regulatory Compliance/Certifications

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