

# RVVSS-50M-F

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10-port stadium sector antenna, 2x 694–960, 4x 1695–2690 MHz & 4x 3300–3800 MHz, 50° HPBW.

- Rectangular patterns with sharp cutoff for illumination a section of the crowd
- Wide bandwidth allows one antenna to serve multiple frequency allocations

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<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>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Rear
<b>RF Connector Quantity, high band</b>	8
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	10

## Dimensions

<b>Width</b>	1354 mm   53.307 in
<b>Depth</b>	210 mm   8.268 in
<b>Length</b>	853 mm   33.583 in
<b>Net Weight, without mounting kit</b>	33.8 kg   74.516 lb

## Array Layout

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Array ID	Frequency (MHz)	RF Connector	RET (N/A)	AISG RET UID
R1	694-960	1 - 2	N/A	N/A
Y1	1695-2690	3 - 4		
Y2	1695-2690	5 - 6		
P1	3300-3800	7 - 8		
P2	3300-3800	9 - 10		

## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   3300 – 3800 MHz   694 – 960 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2500	2500–2690	3300–3600	3600–3800
<b>Gain, dBi</b>	10.9	12.1	12.9	10.6	10.8	11.7	12.1	10.6	11
<b>Beamwidth, Horizontal, degrees</b>	57	50	44	54	51	42	42	53	51
<b>Beamwidth, Vertical, degrees</b>	57	51	45	56	52	43	41	54	49
<b>Beam Tilt, degrees</b>	0	0	0	0	0	0	0	0	0
<b>USLS (First Lobe), dB</b>	23	21	19	21	19	17	20	22	20
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	27	28	25	28	29	28	28	26	27
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30	30	30	30	30	30
<b>Isolation, Inter-band, dB</b>	28	28	28	28	28	28	28	28	28

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<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	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	-150	-145	-145
<b>Input Power per Port at 50° C, maximum, watts</b>	100	100	100	100	100	100	100	100	100

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	1,452.0 N @ 150 km/h (326.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	239.0 N @ 150 km/h (53.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	160 km/h (99 mph)

## Packaging and Weights

<b>Width, packed</b>	1464 mm   57.638 in
<b>Depth, packed</b>	411 mm   16.181 in
<b>Length, packed</b>	990 mm   38.976 in
<b>Weight, gross</b>	38.4 kg   84.657 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## Included Products

F-122-GL	-	Fixed Tilt Pipe Mounting Kit for 2.9"-4.5" (75-115mm) OD round members for panel antennas. Includes 2 clamp sets.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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