

RVVSS-50M-F



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

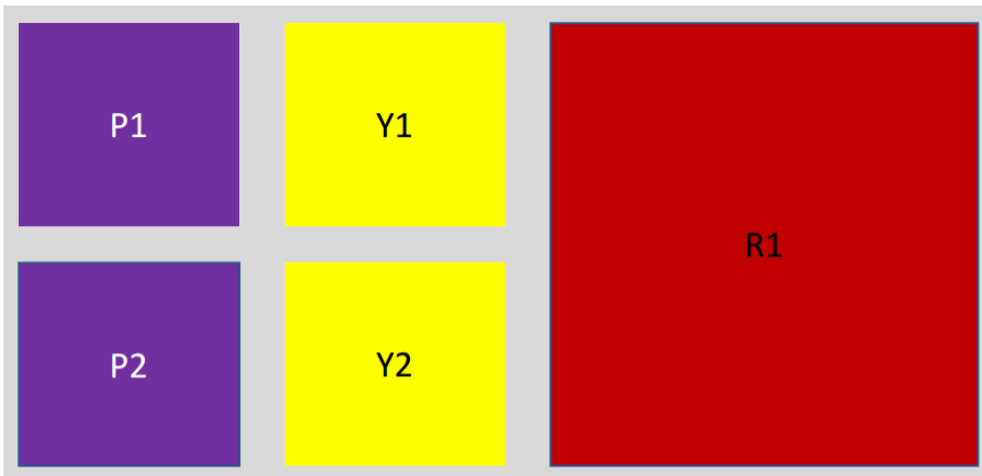
Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Rear
RF Connector Quantity, high band	8
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Dimensions

Width	1354 mm 53.307 in
Depth	210 mm 8.268 in
Length	853 mm 33.583 in
Net Weight, without mounting kit	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

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

Electrical Specifications

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

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VSWR Return loss, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-145	-145
Input Power per Port at 50° C, maximum, watts	100	100	100	100	100	100	100	100	100

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2500	2500–2690	3300–3600	3600–3800
Gain by all Beam Tilts, average, dBi	10.6	11.7	12.6	10.2	10.6	11.6	11.8	10.3	10.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.7	±0.6	±0.7	±0.3	±0.2	±0.3	±0.4	±0.3
Beamwidth, Horizontal Tolerance, degrees	±3.2	±3.1	±2.9	±4	±2.7	±3.8	±1.6	±4.1	±2.1
Beamwidth, Vertical Tolerance, degrees	±3	±2.7	±3.2	±2.5	±3.7	±2.1	±1.9	±2.7	±2
Front-to-Back Total Power at 180° ± 30°, dB	24	25	24	26	26	26	25	25	25
CPR at Boresight, dB	19	21	21	22	23	22	24	19	18

Mechanical Specifications

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

Packaging and Weights

Width, packed	1464 mm 57.638 in
Depth, packed	411 mm 16.181 in
Length, packed	990 mm 38.976 in
Weight, gross	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

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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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance