2VV-33C-R4-V5



8-port multibeam antenna, 8x 1695–2690 MHz, 4x 33° HPBW, 4x RET, has tilt scales

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs 3 antennas required for 6 sector configurations

General Specifications

Antenna Type Multibeam Single band Band

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 **Radiator Material** Low loss circuit board

Reflector Material Aluminum

4.3-10 Female **RF Connector Interface**

RF Connector Location Bottom

RF Connector Quantity, high band 8

RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

RET Hardware CommRFT v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Internal RET High band (4)

Power Consumption, idle state, maximum 2 W Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 395 mm | 15.551 in



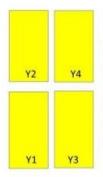
2VV-33C-R4-V5

Depth 228 mm | 8.976 in

Length 2499 mm | 98.386 in

Net Weight, antenna only 29.8 kg | 65.698 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	1695-2690	1-2	1	CPxxxxxxxxxxxxXY1
Y2	1695-2690	3-4	2	CPxxxxxxxxxxxxxXY2
Y3	1695-2690	5-6	3	CPxxxxxxxxxxxxxXY3
Y4	1695-2690	7-8	4	CPxxxxxxxxxxxxxx4

Bottom

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz

Polarization ±45°

Total Input Power, maximum 1,200 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2500	2500-2690
Gain, dBi	19.1	19.3	19.2	19.6	19.6
Gain at Mid Tilt, dBi	18.6	19	19.2	19.3	19.4
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	39	38	37	34	31

ANDREW® an Amphenol company

Page 3 of 7

2VV-33C-R4-V5

Beamwidth, Vertical, degrees	7.8	7.3	7	6.2	5.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
Horizontal Sidelobe, dB	19	20	20	18	17
USLS (First Lobe), dB	15	15	15	18	18
Front-to-Back Ratio at 180°, dB	33	39	39	36	32
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Beam to Beam, dB	30	30	30	30	30
VSWR Return loss, dB	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	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.49 m ² 5.274 ft ²
Effective Projective Area (EPA), lateral	0.36 m² 3.875 ft²
Wind Loading @ Velocity, frontal	525.0 N @ 150 km/h (118.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	386.0 N @ 150 km/h (86.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	898.0 N @ 150 km/h (201.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	540.0 N @ 150 km/h (121.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	505 mm 19.882 in
Depth, packed	386 mm 15.197 in
Length, packed	2631 mm 103.583 in
Weight, gross	43.8 kg 96.562 lb

Regulatory Compliance/Certifications

Agency	Classification
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 www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



<u>2VV-33C-R4-V5</u>



Included Products

BSAMNT-3

Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.
 Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance



BSAMNT-3



Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Agency

UK-ROHS

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Classification

Compliant

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 www.andrew.com/ProductCompliance ROHS Compliant

ANDDEW

