

# 6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, $33^{\circ}$ HPBW, 3x RET

• All Internal RET actuators are connected in "Cascaded SRET" configuration

### 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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

**RF Connector Location**Bottom

RF Connector Quantity, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

### Remote Electrical Tilt (RET) Information

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

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET Low band (1) | Mid band (2)

Power Consumption, active state, maximum 13 W
Power Consumption, idle state, maximum 2 W

**Protocol** 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in



# RVV-33B-R3

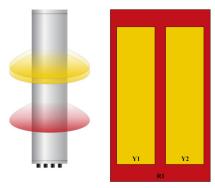
Length

1830 mm | 72.047 in

Net Weight, antenna only

44 kg | 97.003 lb

# Array Layout



Array ID	Frequency (MHz)	RF Connector	(SRET)	AISG No.	AISG RET UID		
R1	694-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxx1		
Y1	1695-2690	3 - 4	2	AISG1	ANxxxxxxxxxxxx2		
Y2	1695-2690	5 - 6	3	AISG1	ANxxxxxxxxxxxx3		

(Sizes of colored boxes are not true depictions of array size

# Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

ANDREW® an Amphenol company

# RVV-33B-R3

### **Electrical Specifications**

	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	790-896	890-960	1695-1990	1920-2300	2300-2500	2490-2690
RF Port	1,2	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain at Mid Tilt, dBi	17.5	18.2	18.6	19.8	20.5	21.3	21.3
Beamwidth, Horizontal, degrees	36	32	30	34	33	28	26
Beamwidth, Vertical, degrees	12.4	11.2	10.5	5.6	5	4.5	4.2
Beam Tilt, degrees	2-13	2-13	2-13	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	20	20	19	20	17	18
Front-to-Back Ratio at 180°, dB	33	36	35	35	35	34	35
CPR at Boresight, dB	20	19	18	20	20	20	22
Isolation, Cross Polarization, dB	28	26	26	28	28	28	28
Isolation, Inter-band, dB	30	30	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	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	200	200	200	200

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 764.0 N @ 150 km/h (171.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,148.0 N @ 150 km/h (258.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 785.0 N @ 150 km/h (176.5 lbf @ 150 km/h)

 Wind Speed, maximum
 241.4 km/h (150 mph)

### Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 66.4 kg | 146.387 lb

Regulatory Compliance/Certifications



# RVV-33B-R3

Agency Classification

CHINA-ROHS Above maximum concentration value

ROHS Compliant/Exempted

UK-ROHS Compliant



#### 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.

BSAMNT-M – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

