

VV-65A-R1B



4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and 1x SBT, the two highband arrays utilize a common tilt.

- The RET interface comprises one pair of AISG input/output ports

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| Band | Single band |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF connector body grounded to reflector and mounting bracket |
| Performance Note | Outdoor usage |
| Radome Material | PVC, UV resistant |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, mid band | 0 |
| RF Connector Quantity, low band | 0 |
| RF Connector Quantity, total | 4 |

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 Bias Tee | Port 1 |
| Internal RET | High band (1) |
| Power Consumption, idle state, maximum | 1 W |
| Power Consumption, normal conditions, maximum | 10 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

| | |
|--------------|--------------------|
| Width | 305 mm 12.008 in |
| Depth | 118 mm 4.646 in |

VV-65A-R1B

| | |
|---|---------------------|
| Length | 1390 mm 54.724 in |
| Net Weight, without mounting kit | 11.2 kg 24.692 lb |

Electrical Specifications

| | |
|-----------------------------------|-----------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1695 – 2690 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 450 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 1695–1990 | 1920–2200 | 2300–2500 | 2490–2690 |
|---|------------------|------------------|------------------|------------------|
| Gain, dBi | 17.7 | 18.2 | 18.5 | 18.6 |
| Beamwidth, Horizontal, degrees | 66 | 66 | 63 | 62 |
| Beamwidth, Vertical, degrees | 6.7 | 6.1 | 5.4 | 5.2 |
| Beam Tilt, degrees | 0–12 | 0–12 | 0–12 | 0–12 |
| USLS (First Lobe), dB | 17 | 19 | 22 | 22 |
| Front-to-Back Ratio at 180°, dB | 31 | 32 | 29 | 31 |
| Isolation, Cross Polarization, dB | 30 | 30 | 30 | 30 |
| Isolation, Inter-band, dB | 28 | 28 | 28 | 28 |
| VSWR Return loss, dB | 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 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 250 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 494.0 N @ 150 km/h (111.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 102.0 N @ 150 km/h (22.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 598.0 N @ 150 km/h (134.4 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|-----------------------|---------------------|
| Width, packed | 413 mm 16.26 in |
| Depth, packed | 249 mm 9.803 in |
| Length, packed | 1525 mm 60.039 in |
| Weight, gross | 19.5 kg 42.99 lb |

VV-65A-R1B

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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

- 600899A-2 – 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

600899A-2



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

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 3.9 kg | 8.598 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4.2 kg | 9.259 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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 |
| UK-ROHS | Compliant |

600899A-2

