

# VV-65T-F-V2



4-port small cell antenna, 1695-2690 MHz, 65° HPBW, fixed electrical tilt, 0.5m pigtails, no mount provided

## OBSOLETE

This product was discontinued on: March 30, 2024

## General Specifications

<b>Antenna Type</b>	Small Cell
<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>	ABS, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>RF Connector Interface</b>	4.3-10 Male
<b>RF Connector Location</b>	End of flexible lead
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, total</b>	4

## Dimensions

<b>Width</b>	200 mm   7.874 in
<b>Depth</b>	44 mm   1.732 in
<b>Length</b>	200 mm   7.874 in
<b>Net Weight, without mounting kit</b>	1.1 kg   2.425 lb

## Electrical Specifications

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

# VV-65T-F-V2

## Electrical Specifications

Frequency Band, MHz	1695–1920	1920–2180	2300–2500	2500–2690
Gain, dBi	10.1	10.8	11.1	11.5
Beamwidth, Horizontal, degrees	78	70	69	65
Beamwidth, Vertical, degrees	41.9	37.9	33.2	31.1
Beam Tilt, degrees	4	4	4	4
USLS (First Lobe), dB	18	16	11	10
Front-to-Back Ratio at 180°, dB	28	31	31	33
Isolation, Cross Polarization, dB	22	22	22	22
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	-150
Input Power per Port, maximum, watts	50	50	50	50
Input Power per Port at 50°C, maximum, watts	50	50	50	50

## Electrical Specifications, BASTA

Frequency Band, MHz	1695–1920	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	9.8	10.6	10.9	11.4
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.3	±0.2
Beamwidth, Horizontal Tolerance, degrees	±5.8	±5.4	±2.4	±2.8
Beamwidth, Vertical Tolerance, degrees	±1.5	±3.4	±1.4	±1.2
Front-to-Back Total Power at 180° ± 30°, dB	20	23	27	25
CPR at Boresight, dB	24	22	22	24
CPR at Sector, dB	11	12	10	11

## Mechanical Specifications

Wind Loading @ Velocity, frontal	43.4 N @ 150 km/h (9.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	9.5 N @ 150 km/h (2.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	0.5 N @ 150 km/h (0.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	44.5 N @ 150 km/h (10.0 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

## Packaging and Weights

# VV-65T-F-V2

---

<b>Width, packed</b>	215 mm   8.465 in
<b>Depth, packed</b>	95 mm   3.74 in
<b>Length, packed</b>	210 mm   8.268 in
<b>Weight, gross</b>	1.3 kg   2.866 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

## \* Footnotes

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