

VV-65T-F-V2



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

This product will be discontinued on: March 30, 2024

General Specifications

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

Dimensions

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°

Electrical Specifications

VV-65T-F-V2

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

Width, packed	215 mm 8.465 in
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VV-65T-F-V2

Depth, packed	95 mm 3.74 in
Length, packed	210 mm 8.268 in
Weight, gross	1.3 kg 2.866 lb

Regulatory Compliance/Certifications

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



* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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