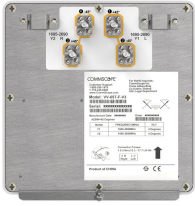


VV-65T-F-V3



4-port small cell antenna, 4x 1695–2690 MHz, 65° HPBW, fixed electrical tilt

- Designed for strand mounting with OEM equipment

General Specifications

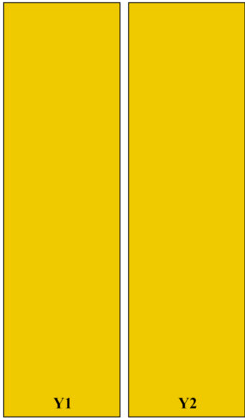
Antenna Type	Small Cell
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radome Material	ASA+PC, UV stabilized
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	NEX10 Female
RF Connector Location	Side back
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	0.82 kg 1.808 lb

Array Layout

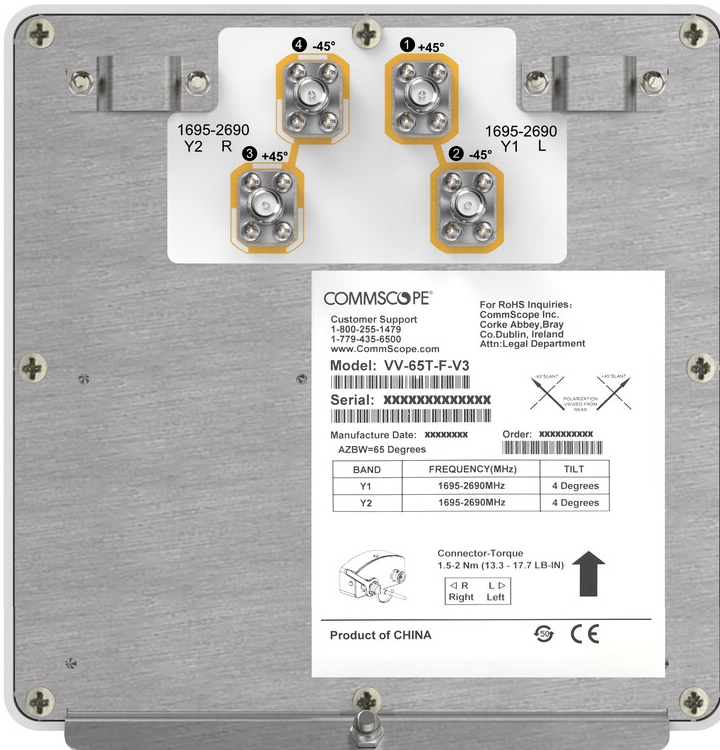
VV-65T-F-V3



Array ID	Frequency (MHz)	RF Connector	RET (N/A)	AISG RET UID
Y1	1695-2690	1 - 2	N/A	N/A
Y2	1695-2690	3 - 4		

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

VV-65T-F-V3

Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	1695–1920	1920–2180	2300–2500	2500–2690
Gain, dBi	10.1	11.1	11.5	12.1
Beamwidth, Horizontal, degrees	80	72	66	63
Beamwidth, Vertical, degrees	44	39	33	31
Beam Tilt, degrees	4	4	4	4
USLS (First Lobe), dB	16	14	10	11
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	25	25	22	24
Isolation, Cross Polarization, dB	22	22	22	22
Isolation, Inter-band, 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	-153
Input Power per Port, 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	9.9	10.6	11.2	11.6
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.6	±0.7
Beamwidth, Horizontal Tolerance, degrees	±3.9	±6	±3.8	±2.4
Beamwidth, Vertical Tolerance, degrees	±2	±3.9	±1.7	±1.9
Front-to-Back Total Power at 180° ± 30°, dB	20	21	22	23
CPR at Boresight, dB	22	19	20	19
CPR at Sector, dB	11	11	9	9

Mechanical Specifications

Wind Loading @ Velocity, frontal	60.8 N @ 150 km/h (13.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	13.4 N @ 150 km/h (3.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	60.8 N @ 150 km/h (13.7 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

VV-65T-F-V3

Packaging and Weights

Width, packed	250 mm 9.843 in
Depth, packed	125 mm 4.921 in
Length, packed	250 mm 9.843 in
Weight, gross	1.1 kg 2.425 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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

