

10-port small cell antenna, 4x 1695–2690, 4x 3400-3800 and 2x 5150-5925 MHz. 65° HPBW, Internal RET and SBT

#### General Specifications

Antenna Type Small Cell

Band Multiband

**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 MaterialASA, UV stabilizedRadiator MaterialLow loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, total

10

### Remote Electrical Tilt (RET) Information, General

**RET Interface** 8-pin DIN Male

**RET Interface, quantity** 1 male

Dimensions

 Length
 600 mm
 | 23.622 in

 Outer Diameter
 200 mm
 | 7.874 in

5 GHz Port Power Table



5 GHz FCC Power Requirements								
U-NII Band	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3				
Frequency (MHz)	5150 - 5250	5250 - 5350	5470 - 5725	5725 - 5850				
Max Input power per port to align with FCC Title 47 Part 15 (Watts)	0.5	0.125	0.125	0.5				

Port Configuration





### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 3400 – 3800 MHz | 5150 – 5925 MHz

Polarization ±45°

**Total Input Power, maximum** 300 W @ 50 °C

### Remote Electrical Tilt (RET) Information, Electrical

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

Power Consumption, active state, maximum 1 W

Power Consumption, idle state, maximum 10 W

Input Voltage 10–30 Vdc

Internal Bias Tee Port 1

**COMMSCOPE®** 

Internal RET		High band (1)						
Electrical Specifications								
Frequency Band, MHz	1695–1920	1920–2180	2300–2690	3400–3800	5150-5925			
Gain, dBi	11.6	12.3	12.8	9.8	4.2			
Beamwidth, Horizontal, degrees	85	74	70	71	73			
Beamwidth, Vertical, degrees	22.9	19.7	16	32.9	26.3			
Beam Tilt, degrees	2–10	2–10	2–10	7	4			
USLS (First Lobe), dB	14	16	15	11	13			
Front-to-Back Ratio at 180°, dB	25	28	26	25	26			
Isolation, Cross Polarization, dB	25	25	25	25	25			
Isolation, Inter-band, dB	25	25	25	25	25			
VSWR   Return loss, dB	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	-153	-153	-150					
Input Power per Port at 50° C, maximum, watts	75	75	75	35	20			
Electrical Specifications, BASTA								
Frequency Band, MHz	1695–1920	1920–2180	2300–2690	3400–3800	5150-5925			
Gain by all Beam Tilts, average, dBi	11.2	11.9	12.3	9.4	3.2			
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.5	±0.8	±1.1			
Gain by Beam Tilt, average, dBi	2 °   11.0 6 °   11.2 10 °   11.2	2 °   11.8 6 °   11.9 10 °   12.0	2 °   12.1 6 °   12.4 10 °   12.4					
Beamwidth, Horizontal Tolerance, degrees	±8.4	±8.2	±8.5	±12	±21			
Beamwidth, Vertical Tolerance, degrees	±2.4	±2	±1.3	±2.6	±4.8			
Front-to-Back Total Power at 180° ± 30°, dB	18	22	20	18	22			
CPR at Boresight, dB	14	17	16	15	10			
CPR at Sector, dB	10	9	6	3	5			
Mechanical Specifications								
Wind Loading at Velocity, frontal		20.2 lbf @ 150 km/h   90.0 N @ 150 km/h						
Wind Speed, maximum		241 km/h   149.75 mph						

Page 4 of 5



### Packaging and Weights

 Width, packed
 320 mm | 12.598 in

 Depth, packed
 300 mm | 11.811 in

 Length, packed
 850 mm | 33.465 in

 Net Weight, without mounting kit
 5.9 kg | 13.007 lb

 Weight, gross
 8.5 kg | 18.739 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



### \* Footnotes

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

