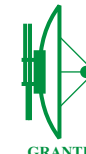


HPA ... 59 Series Antenna Specifications

	HPA 0.8 S 59 FR	HPA 1.2 S 59 FR	HPA 1.5 S 59 FR	HPA 1.8 S 59 FR
Electrical Specification				
Operating Frequency	5.925–6.425 GHz			
Diameter	0.8 m	1.2 m	1.5 m	1.8 m
Gain mid-band	31.1 dBi	34.8 dBi	36.7 dBi	38.4 dBi
Polarization	Linear Simplex (Horizontal or Vertical)			
Half-Power Beamwidth	4.3°	2.9°	2.3°	2.0°
Return Loss	–20.8 dB	–23.1 dB	–26.4 dB	–28.3 dB
Front-to-Back Ratio	58 dB	60 dB	62 dB	66 dB
Cross-Polar Discrimination	30 dB	30 dB	30 dB	30 dB
Flange ¹	Upon Customer's Request			
¹ N-connector, standard waveguide flange or any ODU interface is available upon request.				
Mechanical Specification				
Net Weight ²	26 kg	62 kg	85 kg	146 kg
² Approximate weight (net weight depends on the required interface). Clamps, adjustment system, and side strut are included.				
Antenna Pointing Range				
Azimuth _{fine}	±20°	±15°	±5°	±5°
Elevation _{fine}	±30°	±20°	±5°	±5°
Material and Finish				
Mount	Hot-Dip-Galvanized Steel			
Installation Hardware	Stainless Steel			
Feed	Aluminium			
Environmental Specification				
Operating Windspeed	120 km/h			
Survival Windspeed	220 km/h			
Ambient Temperature	±55°C			
ETSI Standard				
ETSI Range	1	1	1	1
ETSI Class	2	3	3	3



HPA ... 59 Series Antenna Specifications

	HPA 1.2 D 59 FR	HPA 1.5 D 59 FR	HPA 1.8 D 59 FR
Electrical Specification			
Operating Frequency	5.925–6.425 GHz		
Diameter	1.2 m	1.5 m	1.8 m
Gain mid-band	34.6 dBi	36.5 dBi	38.2 dBi
Polarization	Linear Duplex (Horizontal and Vertical)		
Half-Power Beamwidth	2.9°	2.3°	2.0°
Return Loss	–20.8 dB	–23.1 dB	–26.4 dB
Front-to-Back Ratio	60 dB	62 dB	66 dB
Cross-Polar Discrimination	30 dB	30 dB	30 dB
Inter-Port Isolation	40 dB	40 dB	40 dB
Flange ¹	Upon Customer's Request		
¹ N-connector, standard waveguide flange or any ODU interface is available upon request.			
Mechanical Specification			
Net Weight ²	62 kg	85 kg	146 kg
² Approximate weight (net weight depends on the required interface). Clamps, adjustment system, and side strut are included.			
Antenna Pointing Range			
Azimuth _{fine}	±15°	±5°	±5°
Elevation _{fine}	±20°	±5°	±5°
Material and Finish			
Mount	Hot-Dip-Galvanized Steel		
Installation Hardware	Stainless Steel		
Feed	Aluminium		
Environmental Specification			
Operating Windspeed	120 km/h		
Survival Windspeed	220 km/h		
Ambient Temperature	±55°C		
ETSI Standard			
ETSI Range	1	1	1
ETSI Class	3	3	3