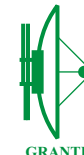


HPA ... 77 Series Antenna Specifications

	HPA 0.6 S 77 FR	HPA 0.8 S 77 FR	HPA 1.2 S 77 FR	HPA 1.5 S 77 FR	HPA 1.8 S 77 FR
Electrical Specification					
Operating Frequency	7.750–8.500 GHz				
Diameter	0.6 m	0.8 m	1.2 m	1.5 m	1.8 m
Gain mid-band	30.5 dBi	33.3 dBi	37.1 dBi	39.1 dBi	40.9 dBi
Polarization	Linear Simplex (Horizontal or Vertical)				
Half-Power Beamwidth	4.3°	3.2°	2.2°	1.7°	1.5°
Return Loss	–19.1 dB	–19.1 dB	–23.1 dB	–23.1 dB	–26.4 dB
Front-to-Back Ratio	60 dB	63 dB	67 dB	69 dB	70 dB
Cross-Polar Discrimination	30 dB	30 dB	30 dB	30 dB	30 dB
Flange ¹	Upon Customer's Request				
¹ N-connector, standard waveguide flanges or any ODU interface is available upon request.					
Mechanical Specification					
Net Weight ²	14 kg	26 kg	62 kg	85 kg	146 kg
² Approximate weight (net weight depends on the required interface). Clamps, adjustment system (and side strut from 0.8 m diameter) are included.					
Antenna Pointing Range					
Azimuth <i>fine</i>	±20°	±20°	±15°	±5°	±5°
Elevation <i>fine</i>	±30°	±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	1
ETSI Class	3	3	3	3	3



HPA ... 77 Series Antenna Specifications

	HPA 0.6 D 77 FR	HPA 0.8 D 77 FR	HPA 1.2 D 77 FR	HPA 1.5 D 77 FR	HPA 1.8 D 77 FR
Electrical Specification					
<i>Operating Frequency</i>	7.750–8.500 GHz				
<i>Diameter</i>	0.6 m	0.8 m	1.2 m	1.5 m	1.8 m
<i>Gain mid-band</i>	30.3 dBi	33.1 dBi	36.9 dBi	38.9 dBi	40.7 dBi
<i>Polarization</i>	Linear Duplex (Horizontal and Vertical)				
<i>Half-Power Beamwidth</i>	4.3°	3.2°	2.2°	1.7°	1.5°
<i>Return Loss</i>	–19.1 dB	–19.1 dB	–20.8 dB	–20.8 dB	–23.1 dB
<i>Front-to-Back Ratio</i>	60 dB	63 dB	67 dB	69 dB	70 dB
<i>Cross-Polar Discrimination</i>	30 dB	30 dB	30 dB	30 dB	30 dB
<i>Inter-Port Isolation</i>	40 dB	40 dB	40 dB	40 dB	40 dB
<i>Flange</i> ¹	Upon Customer's Request				
¹ N-connector, standard waveguide flanges or any ODU interface is available upon request.					
Mechanical Specification					
<i>Net Weight</i> ²	14 kg	26 kg	62 kg	85 kg	146 kg
² Approximate weight (net weight depends on the required interface). Clamps, adjustment system (and side strut from 0.8 m diameter) are included.					
Antenna Pointing Range					
<i>Azimuth</i> _{fine}	±20°	±20°	±15°	±5°	±5°
<i>Elevation</i> _{fine}	±30°	±30°	±20°	±5°	±5°
Material and Finish					
<i>Mount</i>	Hot-Dip-Galvanized Steel				
<i>Installation Hardware</i>	Stainless Steel				
<i>Feed</i>	Aluminium				
Environmental Specification					
<i>Operating Windspeed</i>	120 km/h				
<i>Survival Windspeed</i>	220 km/h				
<i>Ambient Temperature</i>	±55°C				
ETSI Standard					
<i>ETSI Range</i>	1	1	1	1	1
<i>ETSI Class</i>	3	3	3	3	3