



HPA..44 Series Antenna Specifications

HPA 0.6 S 44 HPA 0.8 S 44 HPA 1.2 S 44 HPA 1.5 S 44 HPA 1.8 S 44

Electrical Specification

<i>Operating Frequency</i>	4.400 -5.000 GHz				
<i>Diameter</i>	0.6m	0.8 m	1.2 m	1.5 m	1.8 m
<i>Gain mid-band</i>	27.6 dBi	29.2 dBi	32.2 dBi	34.4 dBi	35.9 dBi
<i>Polarization</i>	Linear Simplex (Horizontal or Vertical)				
<i>Half-Power Beamwidth</i>	6.5°	5.4°	3.7°	3.0°	2.5°
<i>Return Loss</i>	-16.0 dB	-20.8 dB	-23.1 dB	-26.4 dB	-30.7 dB
<i>Front-to-Back Ratio</i>	52 dB	56 dB	58 dB	60 dB	62 dB
<i>Cross-Polar Discrimination</i>	30 dB	30 dB	30 dB	30 dB	30 dB
<i>Inter-Port Isolation</i>					
<i>Connector</i>					

Mechanical Specification

<i>Net Weight ¹</i>	14 kg	26 kg	50 kg	85 kg	146 kg
--------------------------------	-------	-------	-------	-------	--------

¹ Clamps, adjustment system (and side strut above 0.6 m diameter) are included.

Antenna Pointing Range

<i>Azimuth raw/fine ²</i>	±20°	±20°	±15°	±5°	±5°
<i>Elevation raw/fine ²</i>	±30°	±30°	±20°	±5°	±5°

² Fine adjustment is optional for 1.2 m diameter, and standard for 1.5 m diameter antennas.

Material and Finish

<i>Mount</i>	Hot-Dip-Galvanized Steel				
<i>Installation Hardware</i>	Stainless Steel				
<i>Feed</i>	Aluminum				
<i>Reflector</i>	Aluminum				

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>	2	2	3	3	3



HPA..44 Series Antenna Specifications

HPA 0.6 D 44 HPA 0.8 D 44 HPA 1.2 D 44 HPA 1.5 D 44 HPA 1.8 D 44

Electrical Specification

<i>Operating Frequency</i>	4.400 -5.000 GHz				
<i>Diameter</i>	0.6m	0.8 m	1.2 m	1.5 m	1.8 m
<i>Gain mid-band</i>	27.4 dBi	29.0 dBi	32.0 dBi	34.2 dBi	35.7 dBi
<i>Polarization</i>	Linear Simplex (Horizontal or Vertical)				
<i>Half-Power Beamwidth</i>	6.5°	5.4°	3.7°	3.0°	2.5°
<i>Return Loss</i>	-16.0 dB	-20.8 dB	-23.1 dB	-26.4 dB	-30.7 dB
<i>Front-to-Back Ratio</i>	52 dB	56 dB	58 dB	60 dB	62 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>Connector</i>					

Mechanical Specification

<i>Net Weight</i> ¹	15 kg	26 kg	51 kg	85 kg	146 kg
--------------------------------	-------	-------	-------	-------	--------

¹ Clamps, adjustment system (and side strut above 0.6 m diameter) are included.

Antenna Pointing Range

<i>Azimuth</i> <i>raw/fine</i> ²	±20°	±20°	±15°	±5°	±5°
<i>Elevation</i> <i>raw/fine</i> ²	±30°	±30°	±20°	±5°	±5°

² Fine adjustment is optional for 1.2 m diameter, and standard for 1.5 m diameter antennas.

Material and Finish

<i>Mount</i>	Hot-Dip-Galvanized Steel				
<i>Installation Hardware</i>	Stainless Steel				
<i>Feed</i>	Aluminum				
<i>Reflector</i>	Aluminum				

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>	2	2	3	3	3