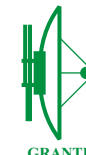


HPA ... 280 Series Antenna Specifications

	HPA 0.3 S 280 SR	HPA 0.4 S 280 FR	HPA 0.6 S 280 FR	HPA 0.8 S 280 FR	HPA 1.2 S 280 FR
Electrical Specification					
Operating Frequency	27.500–29.500 GHz				
Diameter	0.3 m	0.4 m	0.6 m	0.8 m	1.2 m
Gain mid-band	36.6 dBi	39.1 dBi	42.3 dBi	44.6 dBi	48.1 dBi
Polarization	Linear Simplex (Horizontal or Vertical)				
Half-Power Beamwidth	2.3°	1.7°	1.2°	0.9°	0.6°
Return Loss	–17.7 dB	–17.7 dB	–17.7 dB	–17.7 dB	–17.7 dB
Front-to-Back Ratio	63 dB	66 dB	69 dB	71 dB	74 dB
Cross-Polar Discrimination	30 dB	30 dB	30 dB	30 dB	30 dB
Flange ¹	Upon Customer's Request				
¹ Standard waveguide flange or any ODU interface is available upon request.					
Mechanical Specification					
Net Weight ²	10 kg	11 kg	14 kg	26 kg	48 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 _{fine}	±20°	±20°	±20°	±20°	±15°
Elevation _{fine}	±30°	±30°	±30°	±30°	±20°
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	4	4	4	4	4
ETSI Class	3	3	3	3	3



HPA ... 280 Series Antenna Specifications

	HPA 0.3 D 280 SR	HPA 0.4 D 280 FR	HPA 0.6 D 280 FR	HPA 0.8 D 280 FR	HPA 1.2 D 280 FR
Electrical Specification					
Operating Frequency	27.500–29.500 GHz				
Diameter	0.3 m	0.4 m	0.6 m	0.8 m	1.2 m
Gain mid-band	36.6 dBi	39.1 dBi	42.3 dBi	44.6 dBi	48.1 dBi
Polarization	Linear Duplex (Horizontal and Vertical)				
Half-Power Beamwidth	2.3°	1.7°	1.2°	0.9°	0.6°
Return Loss	–17.7 dB	–17.7 dB	–17.7 dB	–17.7 dB	–17.7 dB
Front-to-Back Ratio	63 dB	66 dB	69 dB	71 dB	74 dB
Cross-Polar Discrimination	30 dB	30 dB	30 dB	30 dB	30 dB
Flange ¹	Upon Customer's Request				
<small>¹ Circular waveguide with 8 mm diameter, or direct mounted Orthomode transducer with ODU interfaces and/or standard waveguide flanges. For more information about orthomode transducers please visit http://www.grante.hu/products/passives/OMT/index.html</small>					
Mechanical Specification					
Net Weight ²	10 kg	11 kg	14 kg	26 kg	48 kg
<small>² Approximate weight (net weight depends on the required interfaces). Clamps, adjustment system (and side strut from 0.8 m diameter) are included.</small>					
Antenna Pointing Range					
Azimuth _{fine}	±20°	±20°	±20°	±20°	±15°
Elevation _{fine}	±30°	±30°	±30°	±30°	±20°
Material and Finish					
Mount	Hot-Dip-Galvanized Steel				
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ETSI Class	3	3	3	3	3