



## HPA ... 180230 Series Antenna Specifications

HPA 0.3 S 180230 SR    HPA 0.4 S 180230 FR    HPA 0.6 S 180230 FR    HPA 0.8 S 180230 FR    HPA 1.2 S 180230 FR    HPA 1.5 S 180230 FR    HPA 1.8 S 180230 FR

### Electrical Specification

Operating Frequency	17.700–23.600 GHz						
Diameter	0.3 m	0.4 m	0.6 m	0.8 m	1.2 m	1.5 m	1.8 m
Gain mid-band	33.8 dBi	36.6 dBi	39.5 dBi	41.8 dBi	45.3 dBi	47.2 dBi	48.8 dBi
Polarization	Linear Simplex (Horizontal or Vertical)						
Half-Power Beamwidth	3.2°	2.3°	1.6°	1.3°	0.8°	0.7°	0.6°
Return Loss	-17.7 dB	-17.7 dB	-17.7 dB	-17.7 dB	-17.7 dB	-17.7 dB	-17.7 dB
Front-to-Back Ratio	60 dB	62 dB	65 dB	70 dB	72 dB	75 dB	76 dB
Cross-Polar Discrimination	30 dB	30 dB	30 dB	30 dB	30 dB	30 dB	30 dB
Flange <sup>1</sup>	Upon Customer's Request						

<sup>1</sup> Standard waveguide flange or any ODU interface is available upon request.

### Mechanical Specification

Net Weight <sup>2</sup>	10 kg	11 kg	14 kg	26 kg	48 kg	85 kg	146 kg
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<sup>2</sup> 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 <sub>fine</sub>	±20°	±20°	±20°	±20°	±15°	±5°	±5°
Elevation <sub>fine</sub>	±30°	±30°	±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 <sup>3</sup>	2/3	2/3	2/3	2/3	2/3	2/3	2/3
ETSI Class	2	2	3	3	3	3	3

<sup>3</sup> Operating frequency crosses Range 2 – Range 3 border.