

Logarithmic-periodic Vertical Polarization Half-power Beam Width

380 – 520

V

87°

KATHREIN
Antennen · Electronic

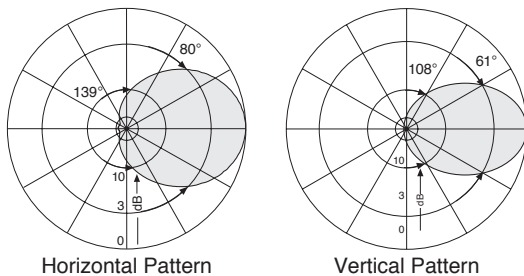
VPol LogPer 380–520 87° 9dBi

Type No.	800 10391		
Frequency range	380 – 410 MHz	410 – 470 MHz	470 – 520 MHz
Polarization	Vertical		
Gain	9.2 dBi	9 dBi	8.7 dBi
Half-power beam width	Horizontal: 80° Vertical: 61°	Horizontal: 85° Vertical: 60°	Horizontal: 88° Vertical: 59°
Impedance	50 Ω		
VSWR	< 1.5		
Intermodulation IM3	< – 150 dBc (2 x 43 dBm carrier)		
Max. power	500 W (at 50 °C ambient temperature)		



- Scope of supply:** Antenna with weather protective casing for straight connectors.
- Material:** Radiator: Weather resistant aluminium.
Radome: Fiberglass, colour: White.
All screws and nuts: Stainless steel.
- Attachment:** To tubular masts of 50 – 380 mm diameter depending on the separate available clamps.
- Ice protection:** Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.
- Grounding:** All metal parts of the antenna including the mounting kit and the inner conductor are DC grounded.

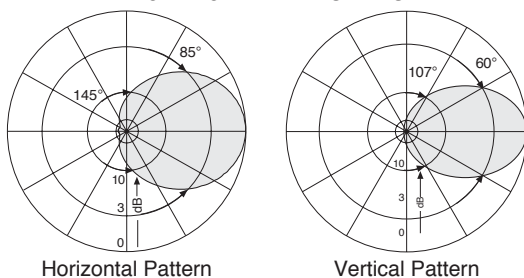
380–410 MHz: +45°/–45°



Horizontal Pattern

Vertical Pattern

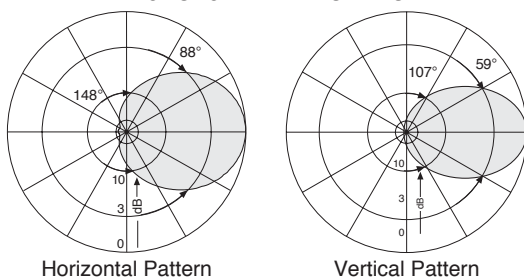
410–470 MHz: +45°/–45°



Horizontal Pattern

Vertical Pattern

470–520 MHz: +45°/–45°



Horizontal Pattern

Vertical Pattern

Mechanical specifications

Input	7-16 female
Connector position	Rearside, pointing downwards
Weight	6 kg
Wind load	Frontal: 54 N (at 150 km/h) Lateral: 150 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	915 x 485 x 485 mm
Height/width/depth	785 / 400 / 400 mm

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Accessories (order separately)

Type No.	Description	Remarks	Weight approx.	Units per antenna
738 546	1 clamp	Mast: 50 – 115 mm diameter	1.0 kg	2
850 10002	1 clamp	Mast: 110 – 220 mm diameter	2.7 kg	2
850 10003	1 clamp	Mast: 210 – 380 mm diameter	4.8 kg	2

Please note:

As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions.

The mechanical design is based on the environmental conditions as stipulated in ETS 300 019-1-4, which includes the static mechanical load imposed on an antenna by wind at maximum velocity. Extraordinary operating conditions, such as heavy icing or exceptional dynamic stress (e.g. strain caused by oscillating support structures), may result in the breakage of an antenna or even cause it to fall to the ground. These facts must be considered during the site planning process.

The installation team must be properly qualified and also be familiar with the relevant national safety regulations.

The details given in our data sheets have to be followed carefully when installing the antennas and accessories.

The limits for the coupling torque of RF-connectors, recommended by the connector manufacturers must be obeyed.

Any previous datasheet issues have now become invalid.



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