

## Parabolic antenna JRMD-680-6

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**Dual-polarized** (circular waveguide) parabolic antenna **JRMD-680-6** is designed for microwave links at the frequency band 6 GHz. Its design with deep dish increases isolation among antennas on a mast and increases front to back ratio.

### Electrical parameters:

<b>Frequency range</b>	5.9 – 7.125 GHz
<b>Gain</b>	30.5 ± 1 dBi
<b>Front to back ratio</b>	≥ 45 dB
<b>Beamwidth<sub>.3 dB</sub></b>	4.6°
<b>VSWR</b>	≤ 1.6
<b>Polarization</b>	Linear, vertical/horizontal or 45°

### Mechanical parameters:

<b>Parabola</b>	ø 68 cm, Aluminium alloy
<b>Radome</b>	UV steady plastic ABS
<b>Input / output</b>	Circular waveguide
<b>Installation on mast</b>	ø 40 - 120 mm
<b>Operating wind load</b>	180 km/h (112 mph)
<b>Survival wind load</b>	240 km/h (149 mph)
<b>Weight of antenna</b>	5.7 kg (12.6 lbs.)
<b>of holder</b>	3.2 kg (7.0 lbs.)
<b>Shipping dimension</b>	800 x 800 x 350 mm/ 13 kg (28.7lbs.)

### Usage:

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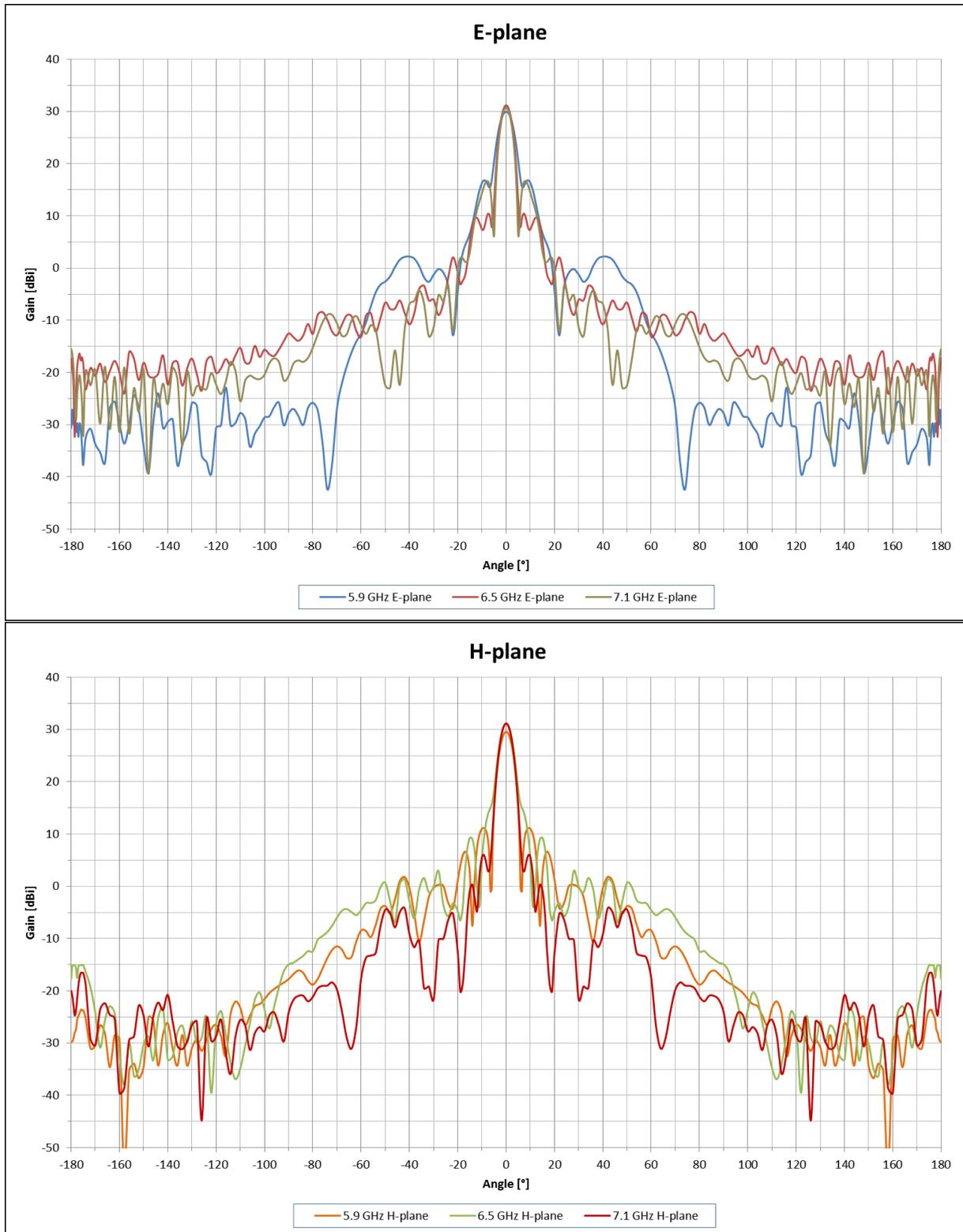
- deep parabola for better parameters
- **easy to assembly:** first the holder and then the antenna only by 2 screws
- **fine setting** elevation (of gradient) and azimuth  $\pm 20^\circ$
- extreme wind stability

The antenna is supplied with a holder that allows easy mounting on a mast. The holder can be installed separately on the mast. Subsequently, you can simply hang up the antenna with microwave unit into it. The holder allows precise adjustment in both directions. Ready for right and left side mounting.

In the areas with the expected occurrence of the strong winds mounting on the mast with minimal  $\varnothing$  50 mm is recommended.

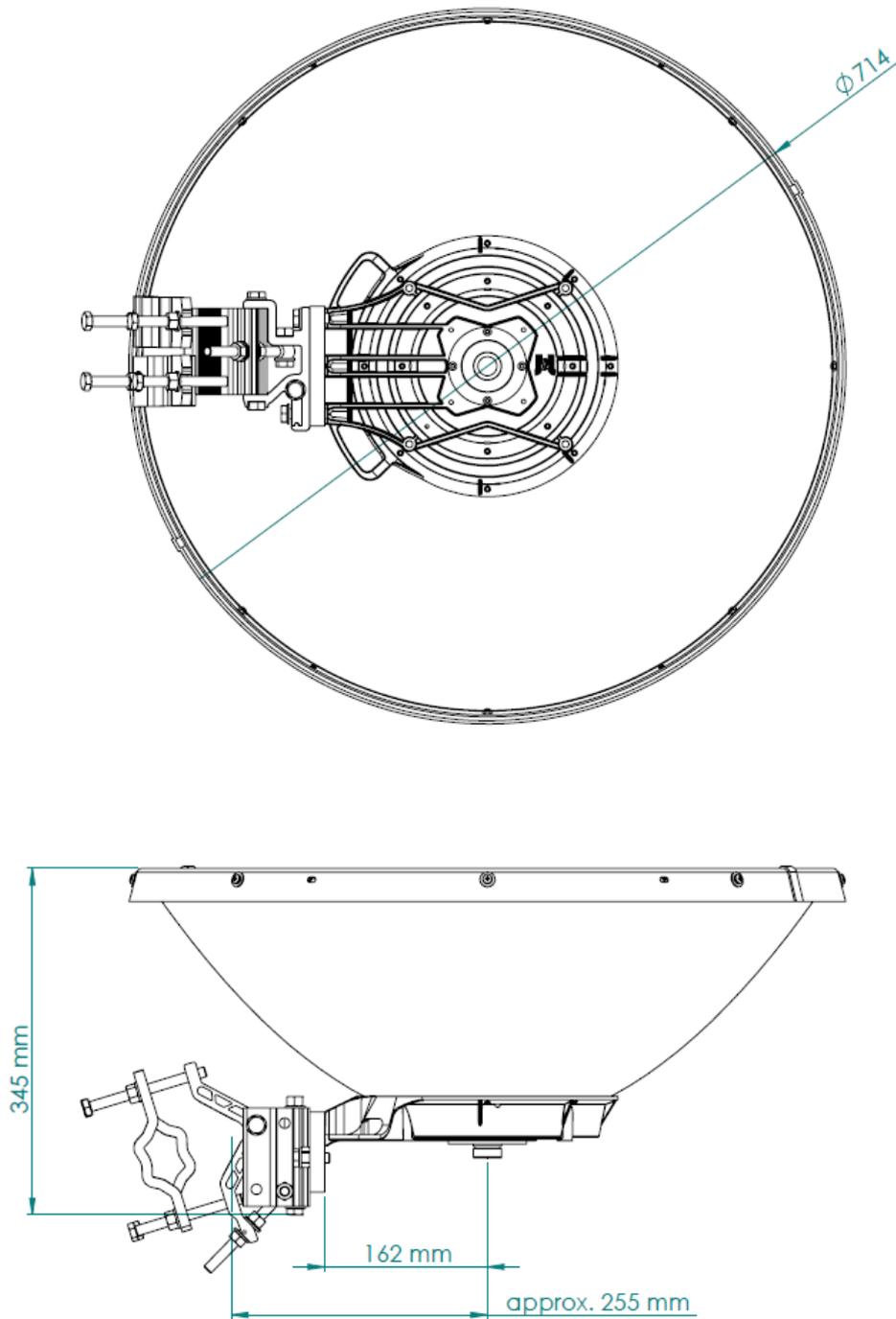
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## Measurement of radiation pattern:



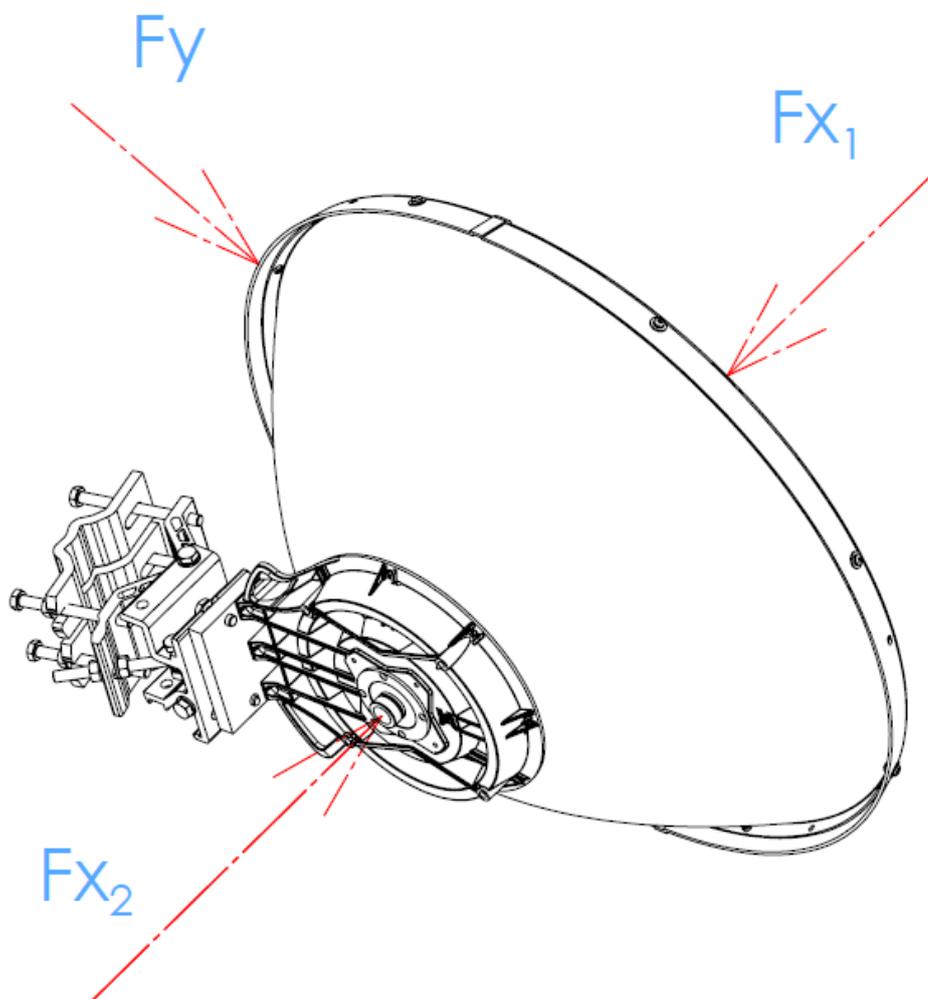
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## Outline:



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### Wind loading:



### Wind Loading at 200 km/h [125 mph]

Direction	Force [N]	Force [lbf]
$F_{x_1}$	707	158,9
$F_{x_2}$	792	178
$F_y$	71	15,9