

Parabolic antenna JRMC - 680 - 80

Antenna JRMC – 680 – 80 is designed for microwave links at the frequency band 80 GHz. Precise performance with deep reflector dish complies with standard ETSI class 3 and FCC Cat. A.

Electrical parameters:

Frequency range	71 – 86 GHz
Gain – Low frequency	50.7 ± 1.4 dBi
Gain – High frequency	51.6 ± 1.4 dBi
Front to back ratio	≥ 67 dB
Beamwidth _{-3 dB}	0.4°
Return loss	≥ 15 dB
Polarization	Linear, vertical/horizontal
Electrical Compliance	US FCC Cat. A Class 3 ETSI EN 302 217-4 V2.1.1

Mechanical parameters:

Parabola	∅ 68 cm, Aluminium alloy
Radome	UV steady plastic ABS
Input/output	Circle waveguide ∅ 3.2 mm
Installation on mast	∅ 40 - 120 mm
Operating wind load	180 km/h (112 mph)
Survival wind load	240 km/h (149 mph)
Weight of antenna	5.2 kg (11.5 lbs.)
of holder	3.3 kg (7.3 lbs.)
Shipping dimension	800 x 800 x 350 mm/ 12.6 kg (28.8 lbs.)

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Usage:

- deep parabola for better parameters
- **easy to assembly:** first the holder and then the antenna only by 2 screws
- superior stability when tightening after alignment
- 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 JDMW-910 was designed especially for 80 GHz antennas:

- **extra fine** adjustment in both directions
- **superior stability** when tightening after alignment

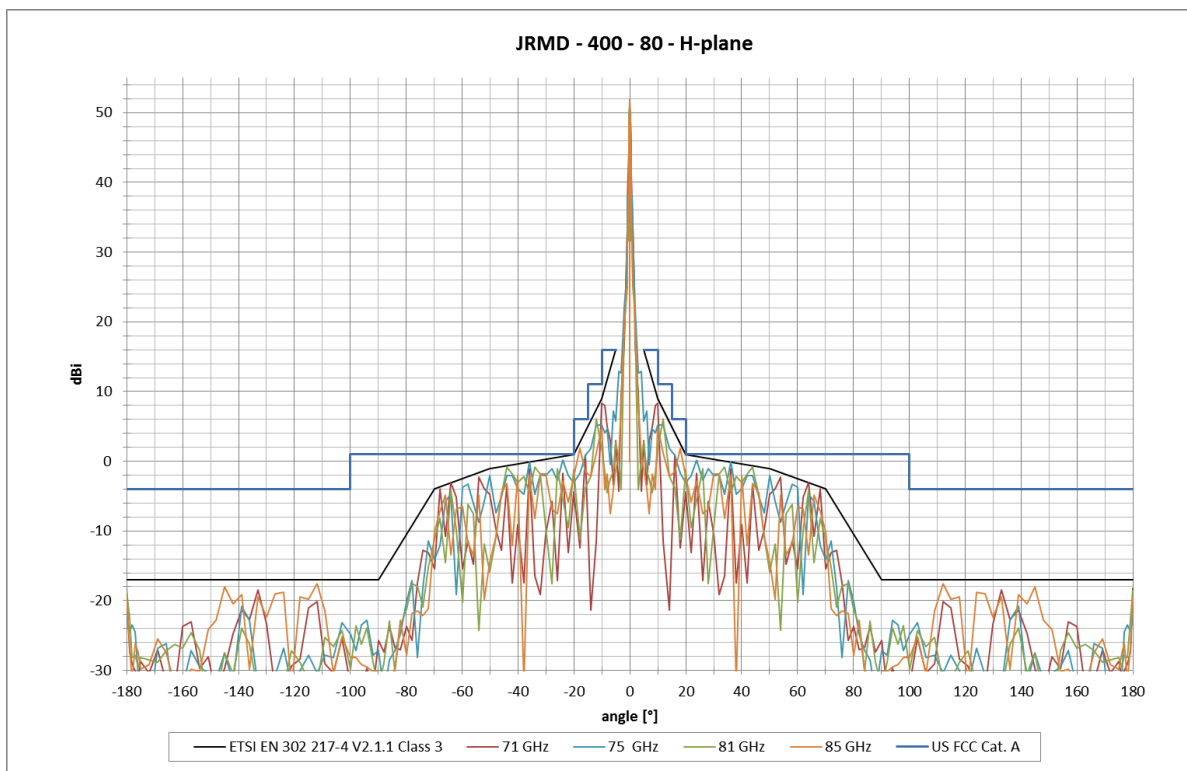
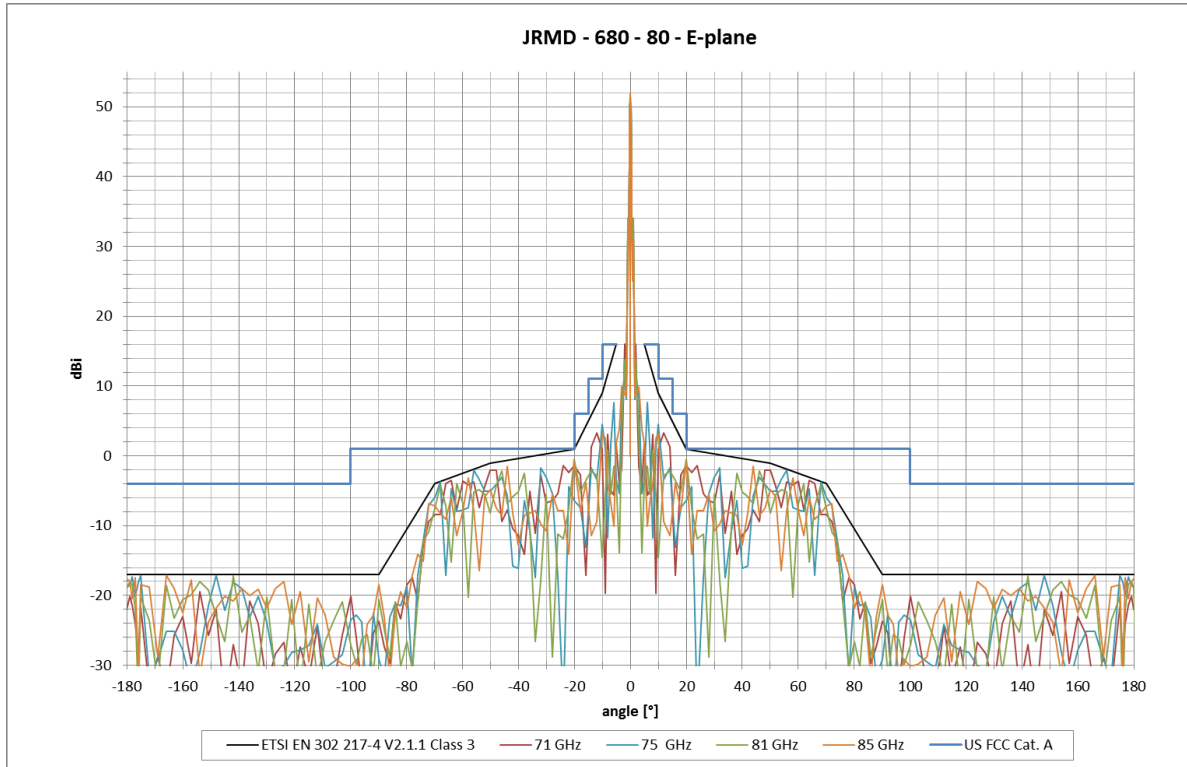
Ready for right and left side mounting.

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

Please consider the mast stability with respect to the antenna's extremely narrow beamwidth! The mast stability is important for maximum radio link performance.

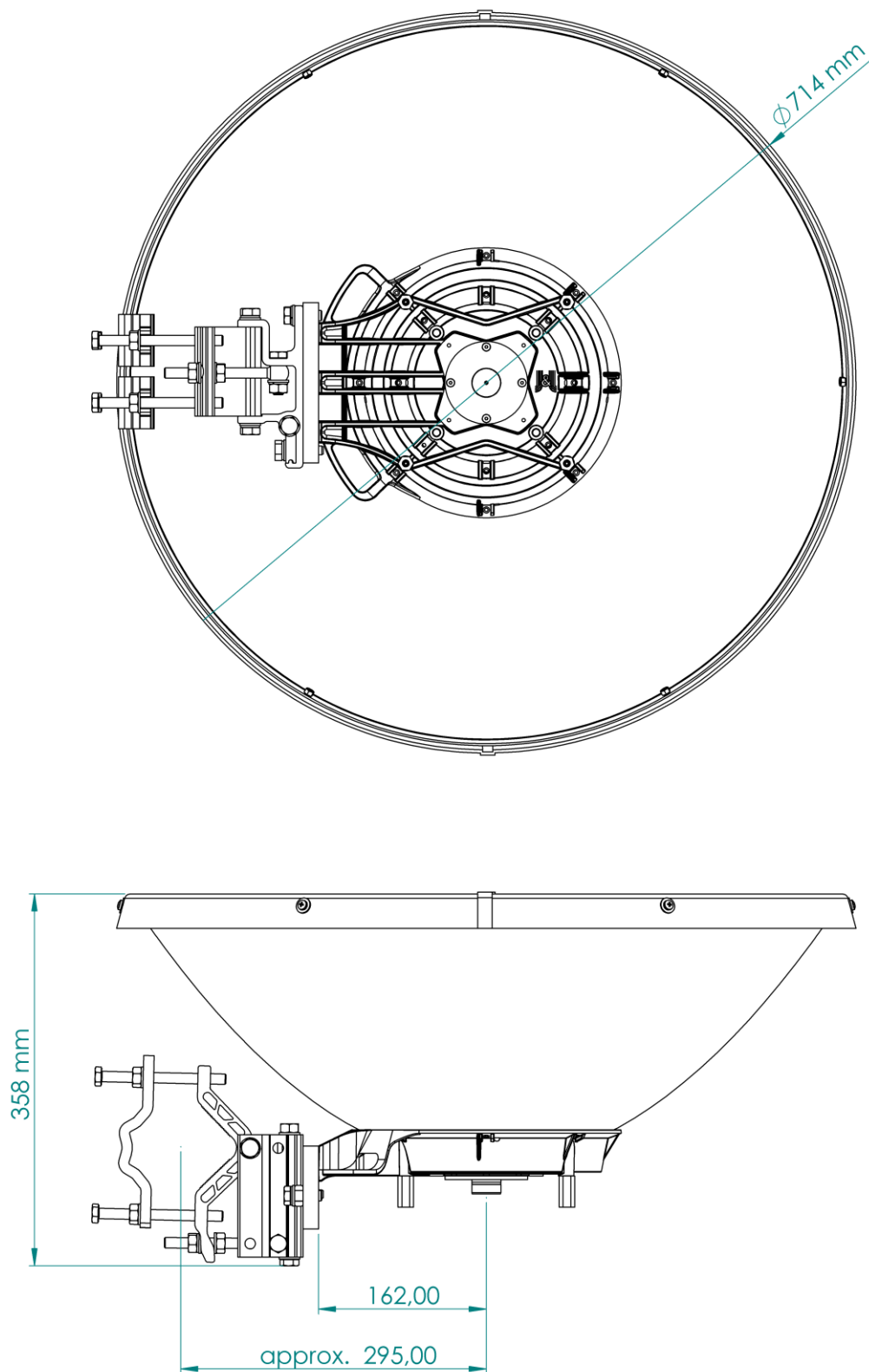
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Measurement of radiation pattern:



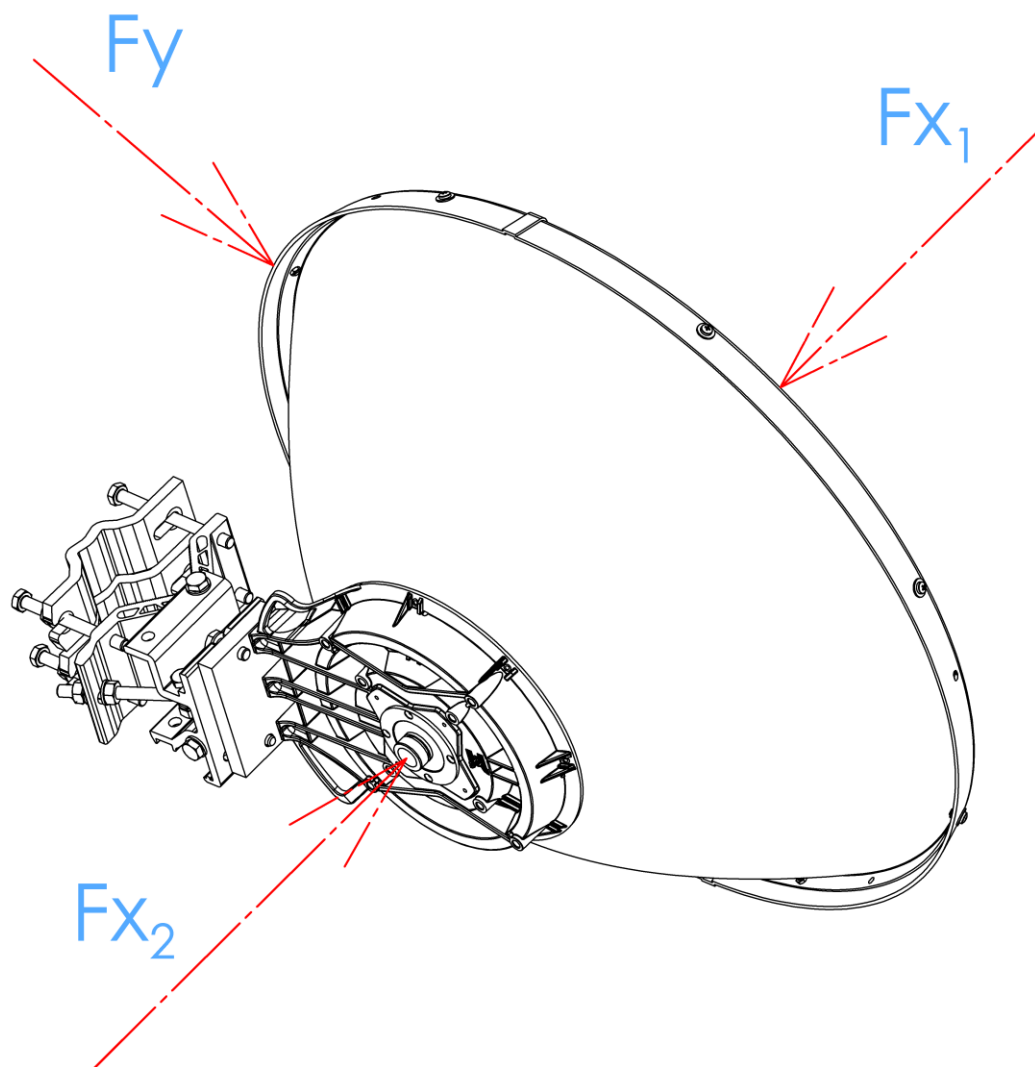
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Outline:



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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