Parabolic antenna JRMC - 680 - 80

www.jirous.com

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°
XPD	≥ 33 dB
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	ø 68 cm, Aluminium alloy
Radome	UV steady plastic ABS
Input/output	Circle waveguide Ø 3.2 mm
Installation on mast	ø 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 ø 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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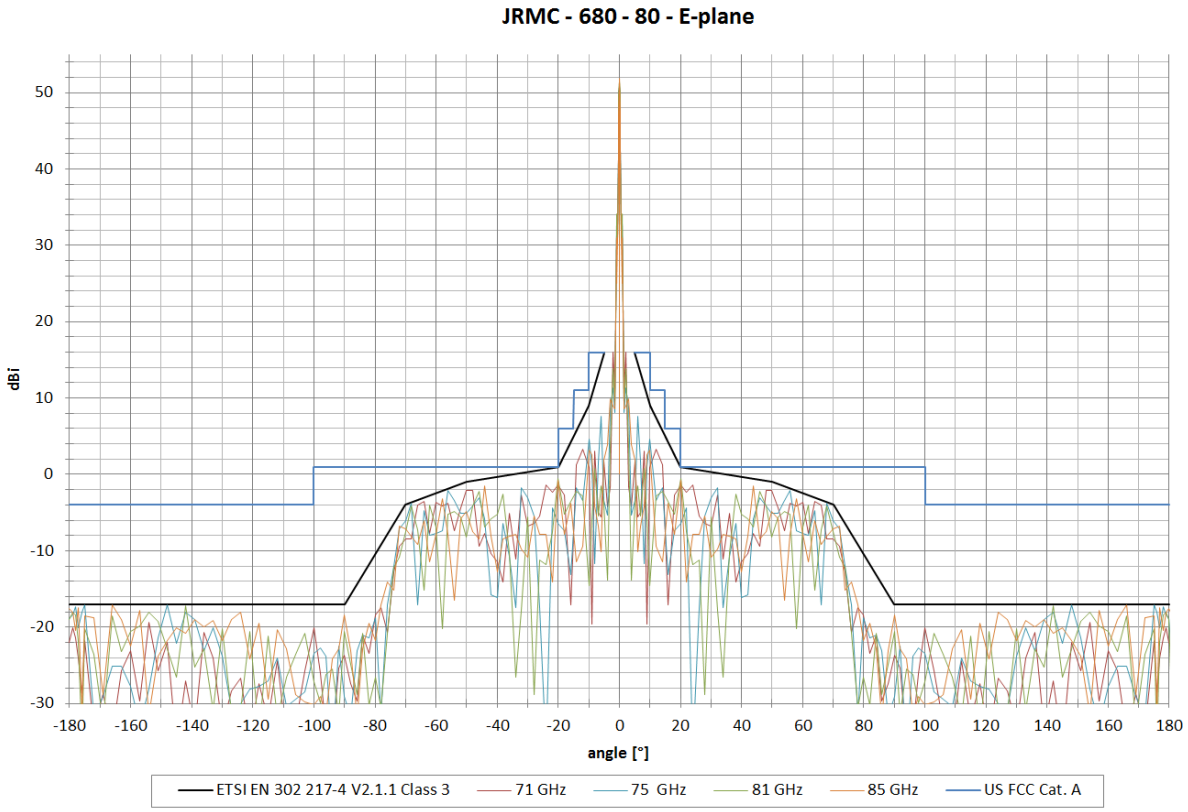
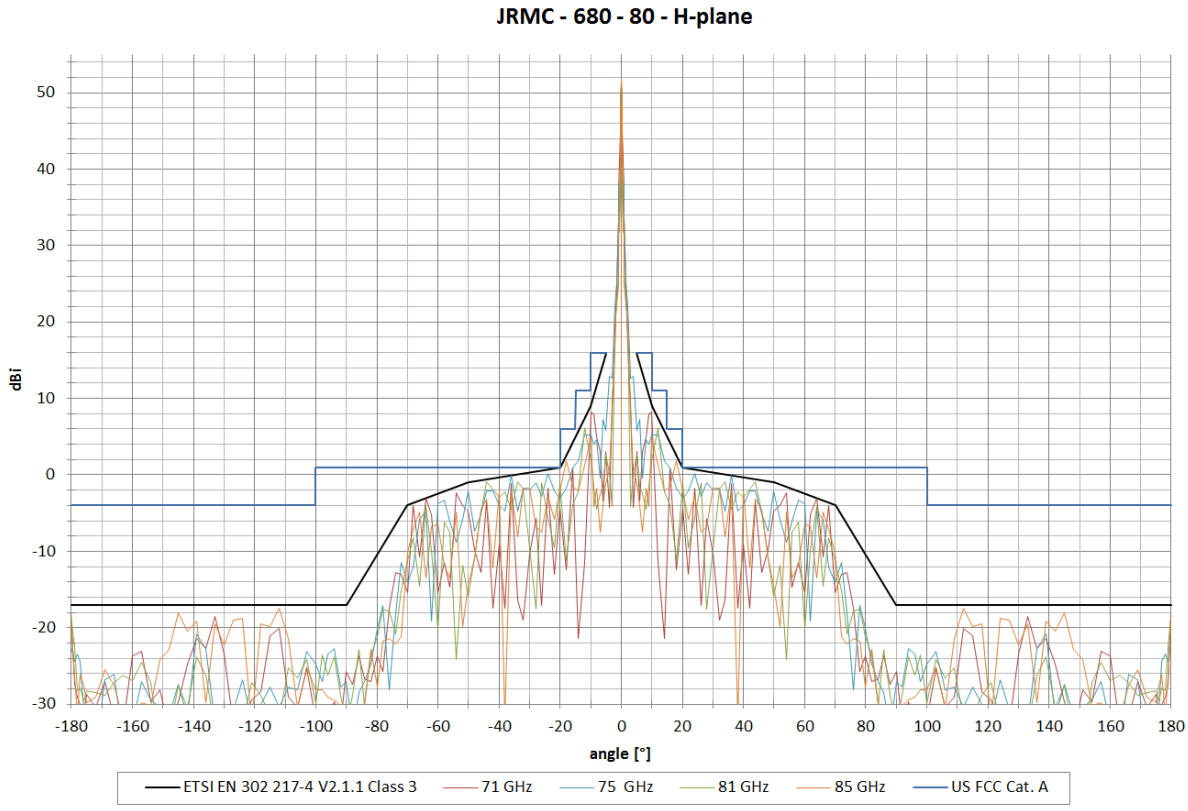
Measurement of radiation pattern:





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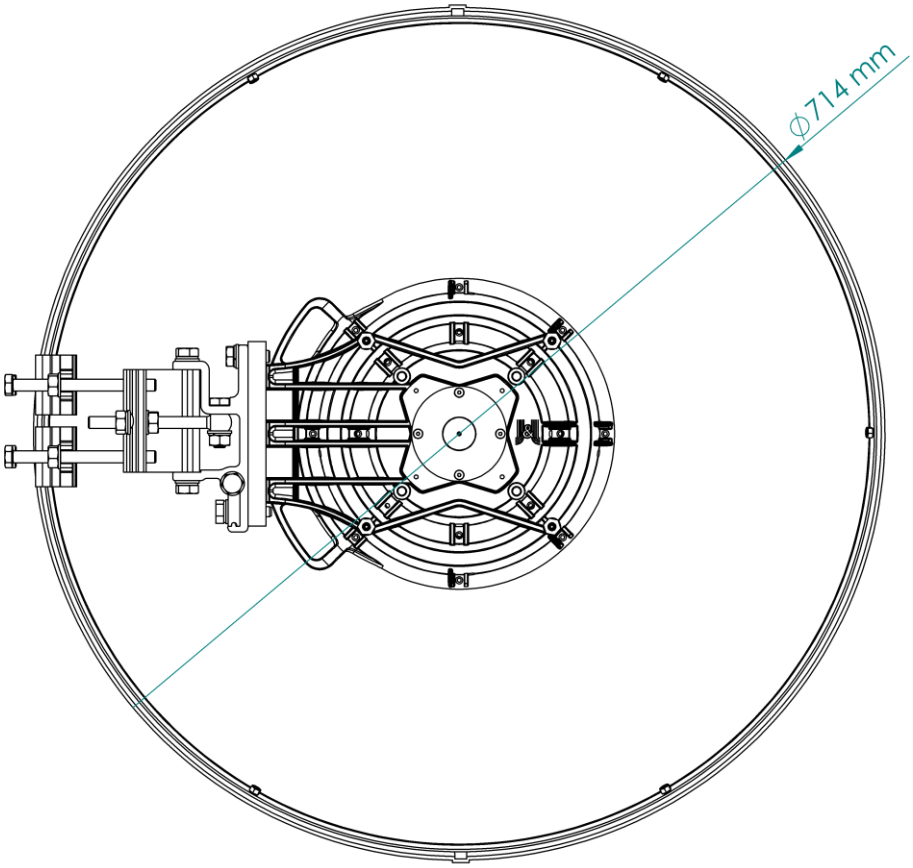
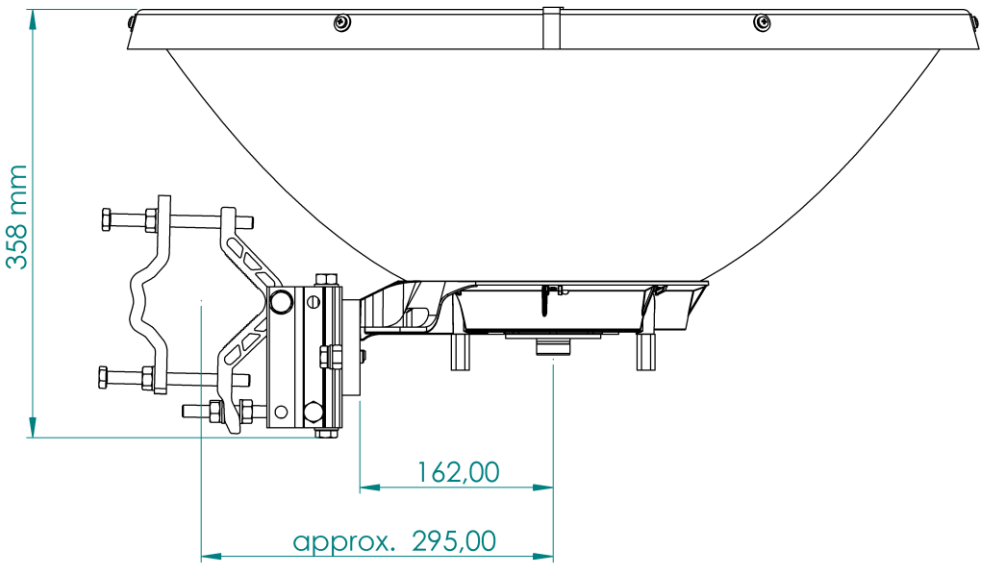
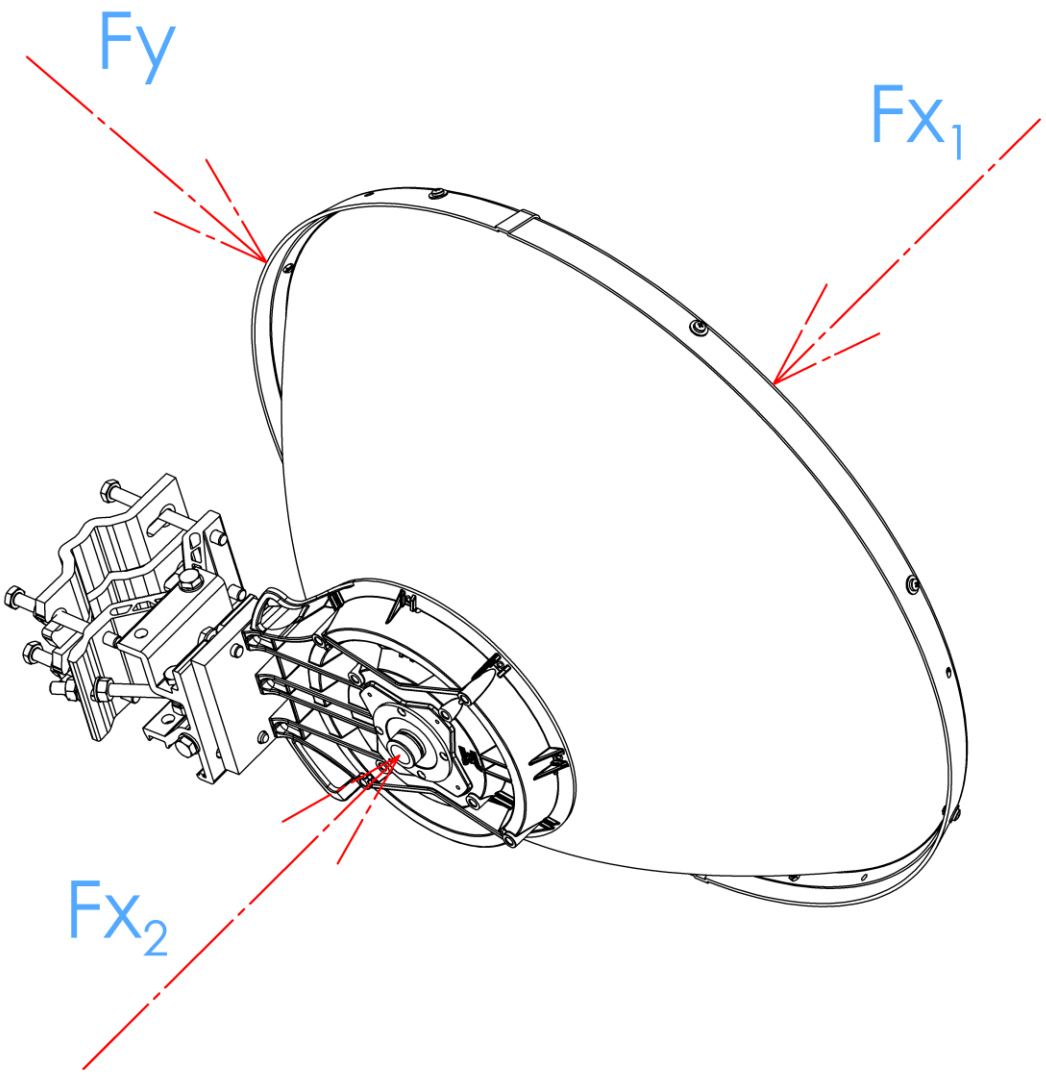
Outline:





Wind loading:



Wind Loading at 200 km/h [125 mph]

Direction	Force [N]	Force [lbf]
Fx_1	707	158,9
Fx_2	792	178
Fy	71	15,9