

Parabolic antenna JPMC - 900 -10/11

Antenna JPMC – 900 – 10/11 is designed for microwave links at the frequency band 10 and 11 GHz. Precise performance with deep reflector dish complies with standard ETSI class 3.

Electrical parameters:

Frequency range	10.0 – 12.0 GHz
Gain – Low frequency	37.0 ± 1 dBi
Gain – High frequency	37.5 ± 1 dBi
Front to back ratio	≥ 62.5 dB
Beamwidth _{-3 dB}	2.3°
Return loss (VSWR)	≥ 18 dB _{/10.3 – 11.7 GHz}
Polarization	Linear, vertical/horizontal
Electrical Compliance	US FCC Part 101A 10.550 – 10.680 GHz
	US FCC Part 101B 10.7 – 11.7 GHz
	Class 3 ETSI EN 302-217-4-2 v1.5.1

Mechanical parameters:

Parabola	Ø 900 mm , aluminium alloy
Radome	UV steady plastic ABS
Input / output	Circle waveguide Ø 19 mm
Installation for mast	Ø 40 – 120 mm
Operating wind load	140 km/h (87 mph)
Survival wind load	210 km/h (130 mph)
Weight of antenna	10.2 kg (22.4 lbs.)
of holder	3.2 kg (7.1 lbs.)
Shipping dimensions	
of antenna	990 x 990 x 430 mm / 13.1 kg (22.4 lbs.)
of holder	180 x 170 x 165 mm / 3.5 kg (7.7 lbs.)

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Usage:

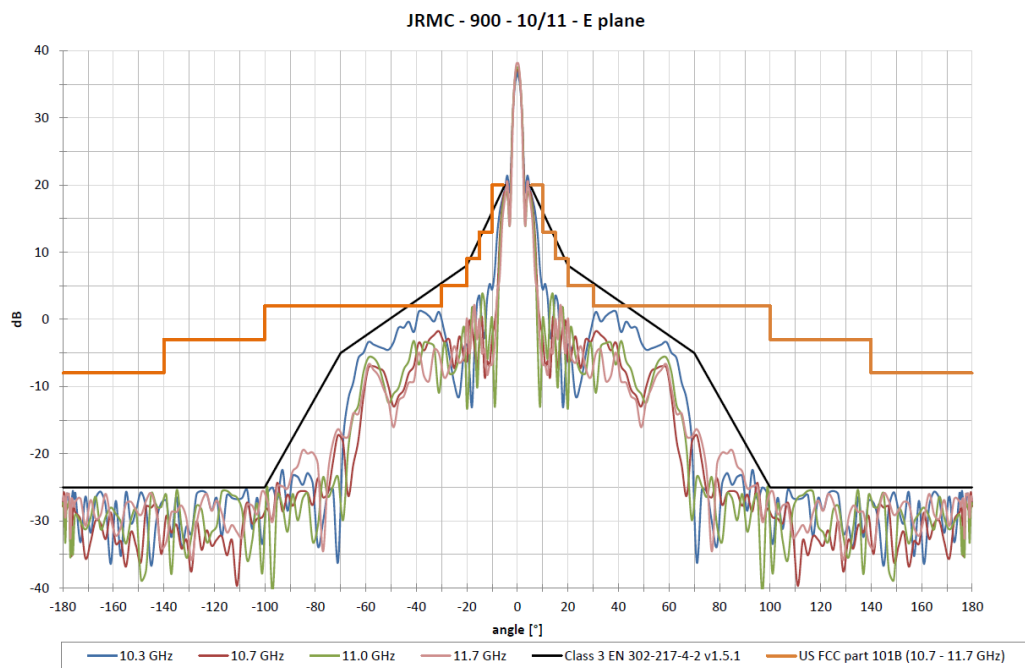
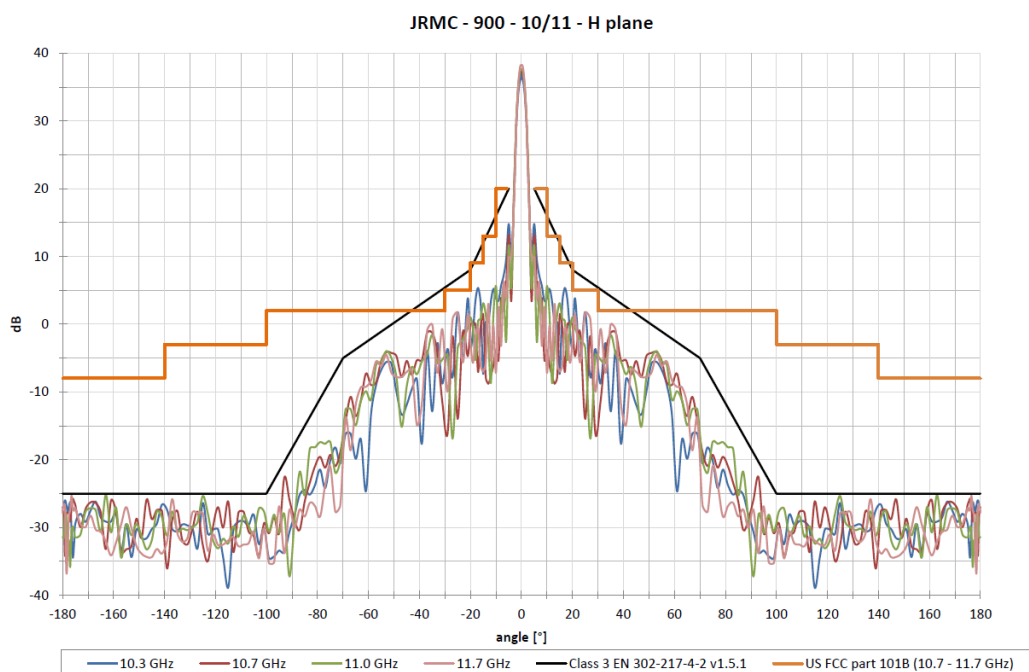
- deep parabola for better parameters
- **easy to assembly:** first the holder and then the antenna only by 2 screws
- **fine setting** elevation (of gradient) and azimuth $\pm 20^\circ$
- extreme wind stability

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 70 mm is recommended.

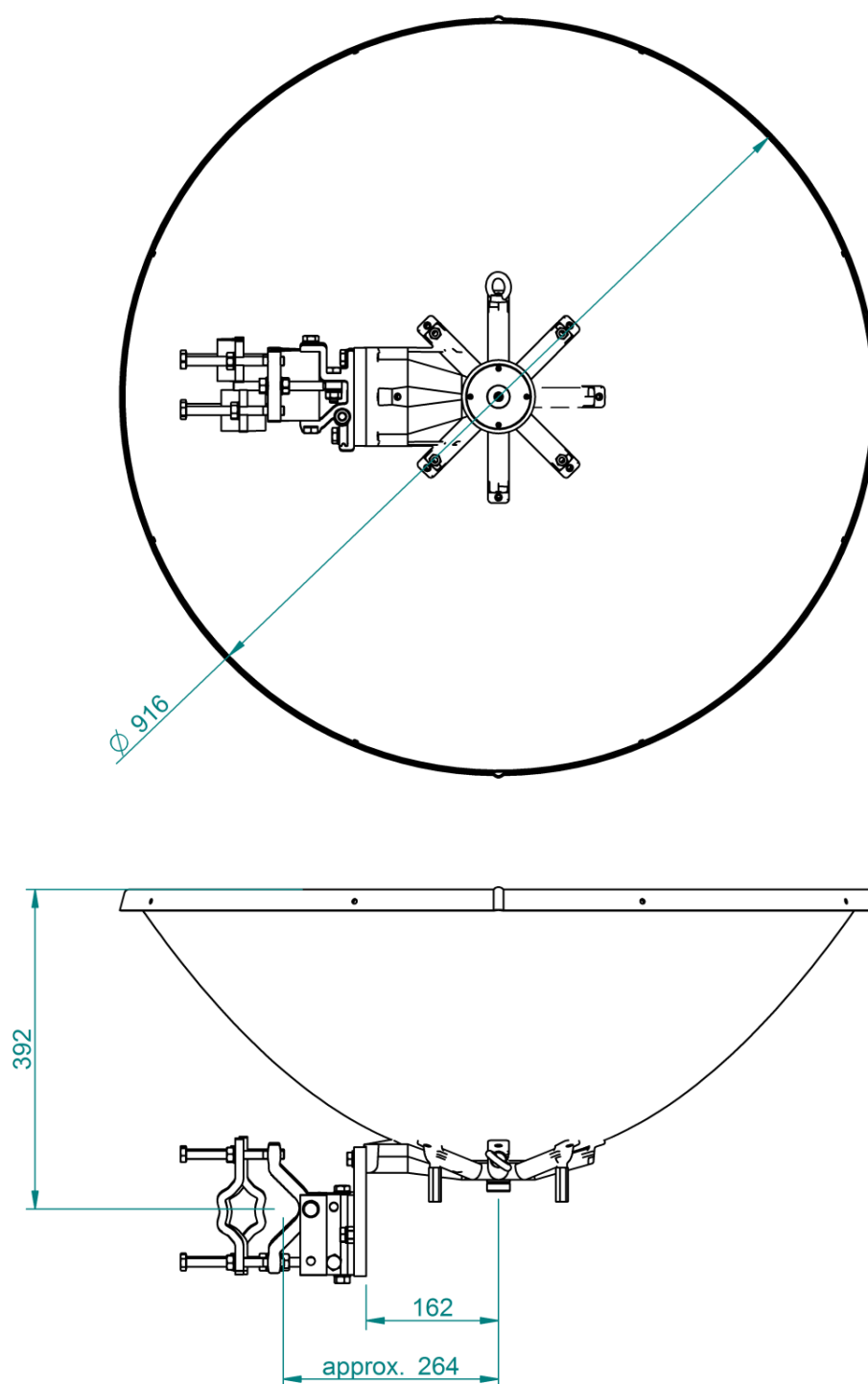
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Measurement of radiation pattern:



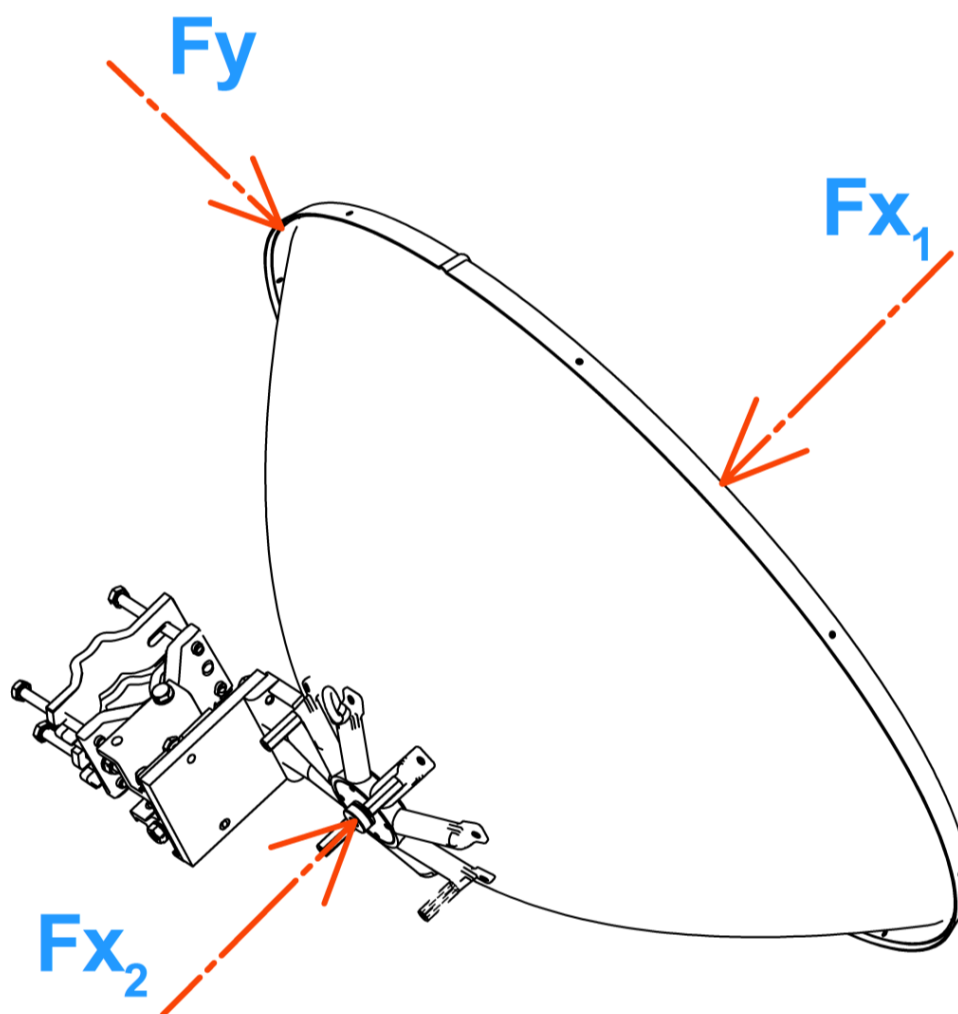
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Outline:



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Wind loading:



Wind Loading at 200 km/h (125 mph)		
Direction	Force [N]	Force [lbf]
Fx1	1443	325
Fx2	1324	298
Fy	91	20,5