Parabolic antenna JRMC – 1800 –10/11

www.jirous.com

Antenna **JRMC – 1800 – 10/11** is designed for microwave links at the frequency band 10 and 11 GHz. Precise performance with deep reflector dish is complying with standard ETSI class 3 and FCC Part 101A.

Electrical parameters:

Frequency range	10.0 – 12.0 GHz
Gain – Low frequency	43.0 ± 1 dBi
Gain – High frequency	44.0 ± 1 dBi
Front to back ratio	≥ 69 dB
XPD	≥ 40 dB
Beamwidth$_{-3\ dB}$	1.0°
Return loss	≥ 15 dB$_{/10.3 – 11.7\ GHz}$
Polarization	Linear, vertical/horizontal
Electrical Compliance	US FCC **Part 101A** | 10.550 – 10.680 GHz US FCC **Part 101A** | 10.7 – 11.7 GHz **Class 3** ETSI EN 302-217-4-2 ACMA - RALI FX3 **Grade B**

Mechanical parameters:

Parabola	Ø 1800 mm , aluminium alloy
Radom	UV resistant composite material
Input / output	Circle waveguide Ø 19 mm
Installation for mast	ø 70 - 120 mm
Operating wind load	140 km/h (87 mph)
Survival wind load	210 km/h (130 mph)
Weight of antenna	82 kg (180 lbs.)
Shipping dimensions	1945 x 770 x 2050 mm / 140 kg 6’ 4.6” x 2’ 6.3” x 6’ 8.7” / 308.6 lbs

Parabolic antenna JRMC – 1800 –10/11

Usage:

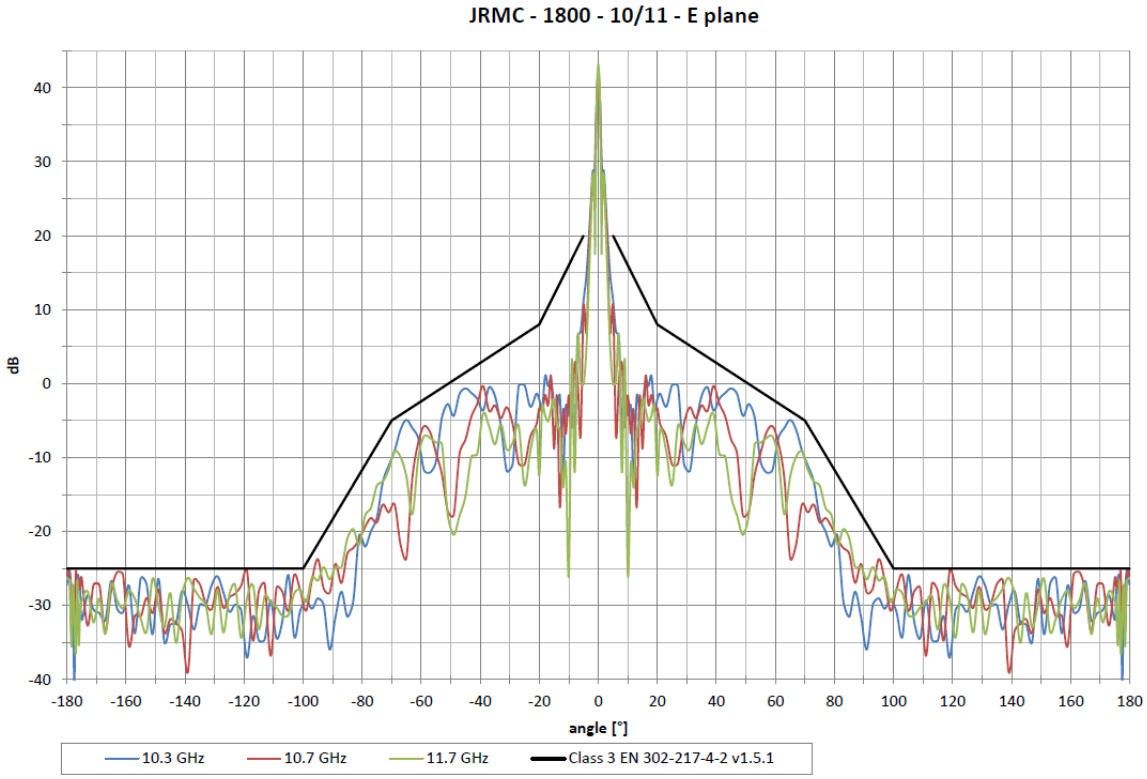
The antenna is supplied together with a massive holder that allows easy mounting on a mast. Holder can be installed separately on the mast. Subsequently, the antenna and microwave unit can be simply hung up into it.

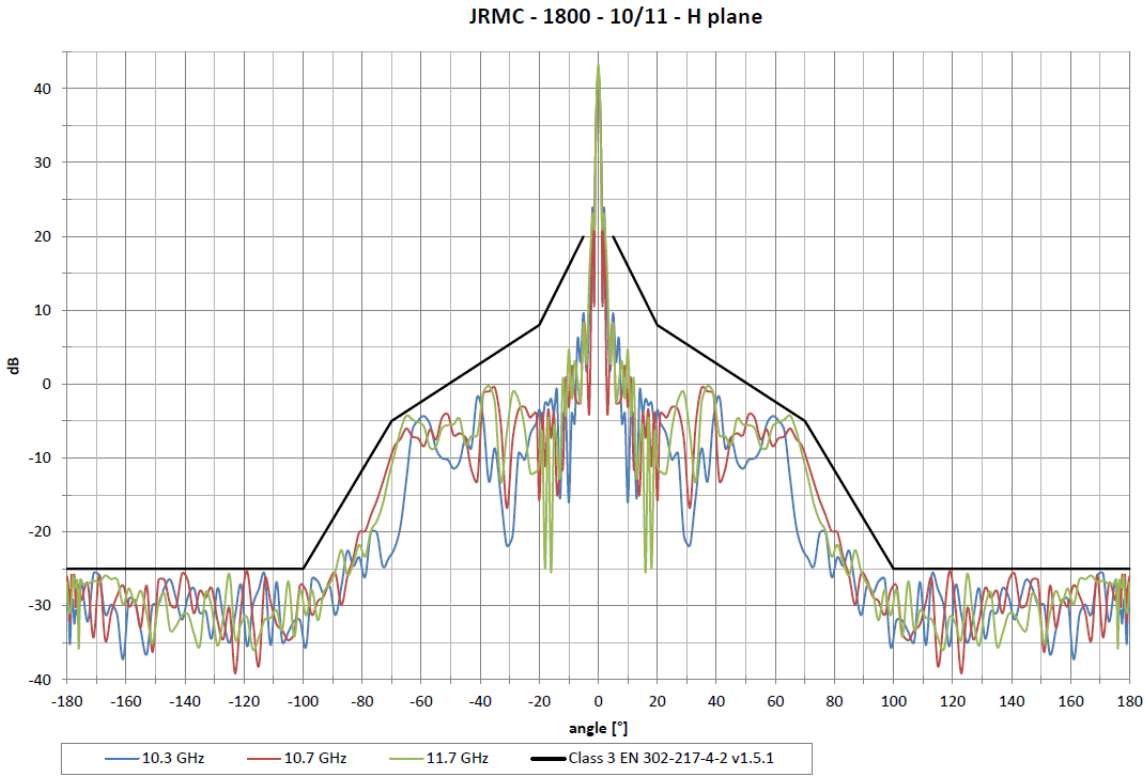
Antenna holder allows fine setting of elevation ± 7°. Adjustable wind bracing set for fine setting of azimuth ± 7° is a part of antenna.

Ready for right and left side mounting.

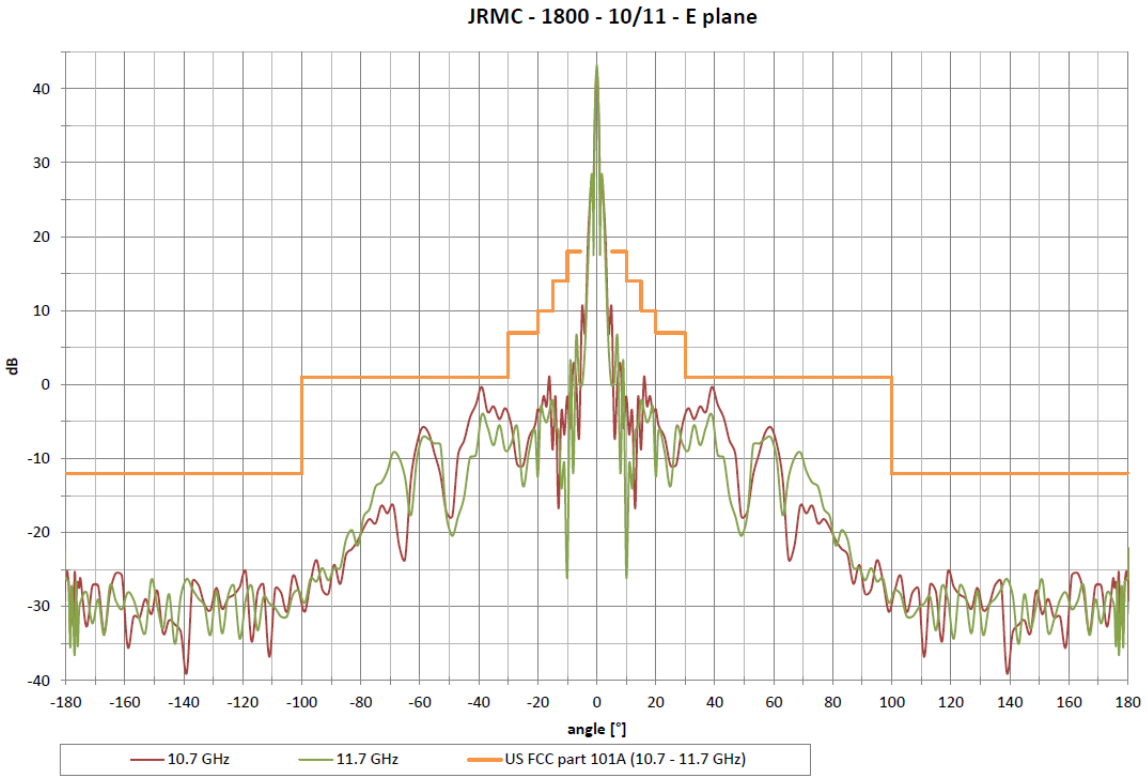
Parabolic antenna JRMC – 1800 –10/11

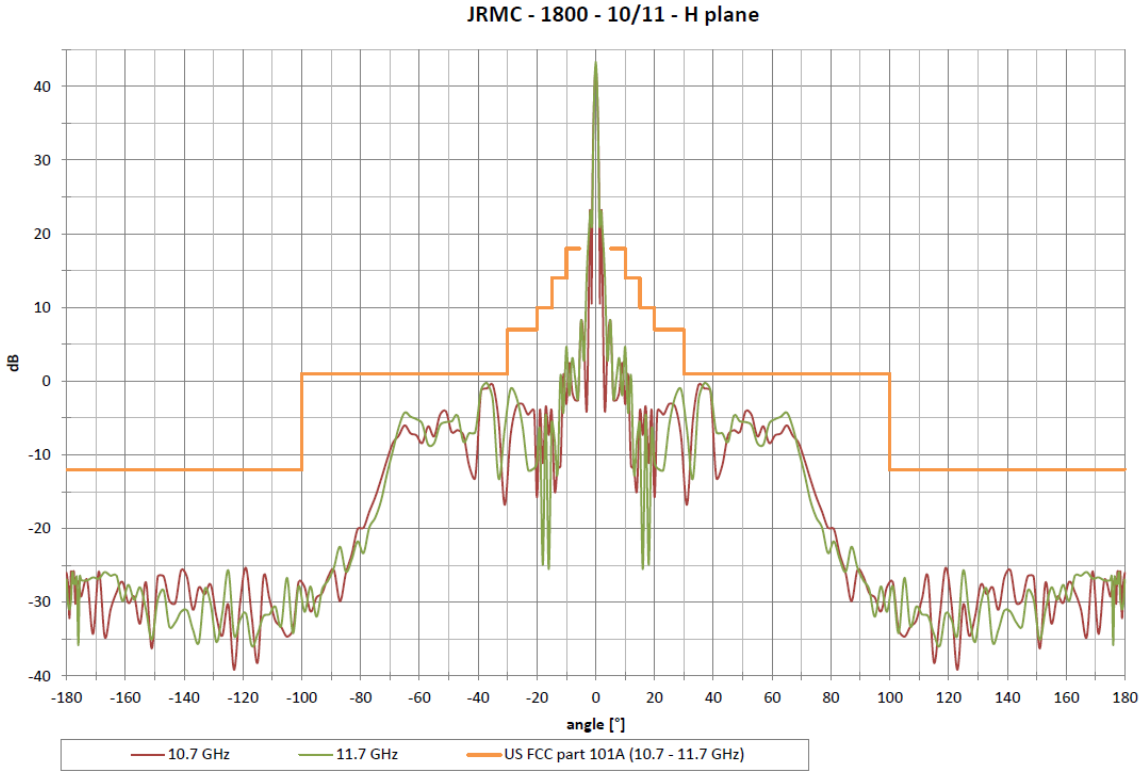
Measurement of radiation pattern:





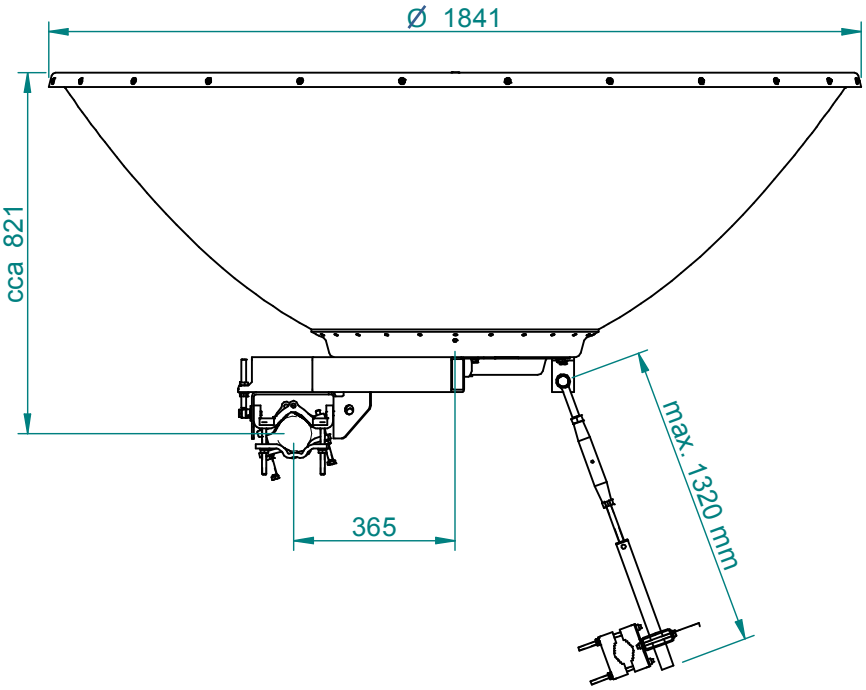
Parabolic antenna JRMC – 1800 –10/11

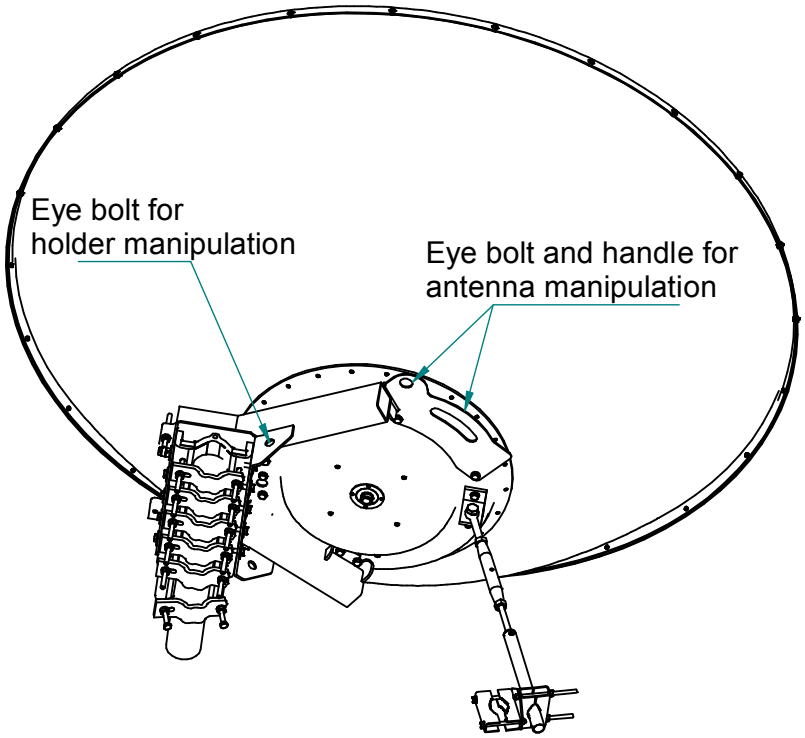




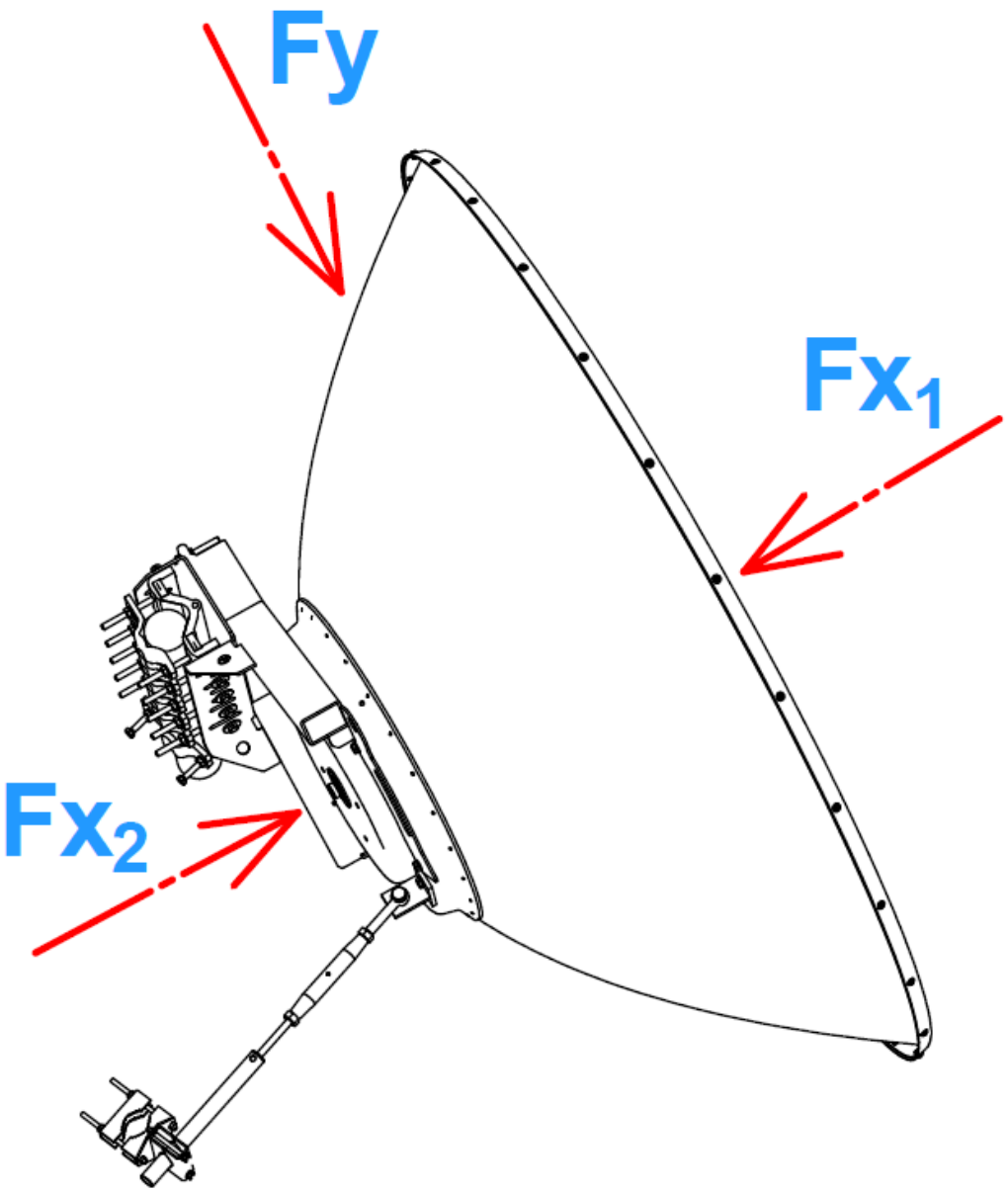
Parabolic antenna JRMC – 1800 –10/11

Outline:





Wind loading:



Wind Loading 200 km/h [125 mph]		
Direction	Force [N]	Force [lbf]
Fx1	4424	994
Fx2	3394	763
Fy	672	151