

Parabolic antenna JRMB - 680 - 17Ra

Antenna JRMB - 680 - 17 is designed for microwave links at the frequency band 17 GHz and 18 GHz. Precise performance with deep reflector dish complies with standard ETSI EN 302-217-4-2 class 2. High cross-port isolation allows to use system with polarization separation.

Electrical parameters:

Frequency range	17.1 - 19.7 GHz
Gain	38.6 ± 0.5 dBi / 17.1 - 17.3 GHz 39.2 ± 0.5 dBi / 17.7 - 19.7 GHz
Side lobes suppression	≥ 15 dB
Front to back ratio	≥ 58 dB
Beamwidth_{-3 dB}	1.6°
Cross-port isolation	≥ 45 dB (at 17 GHz frq. band)
Return loss (VSWR)	≥ 17 dB (≤ 1.3)
Polarization	Vertical / Horizontal
ETSI standard	EN 302-217-4-2 v1.5.1 Class 2

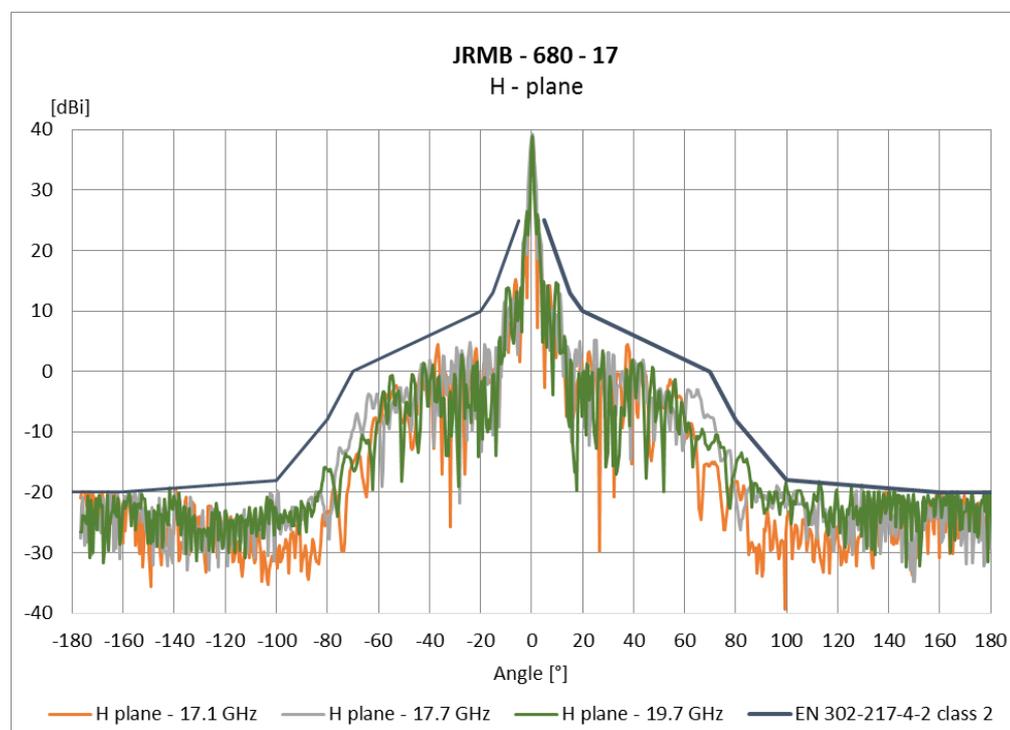
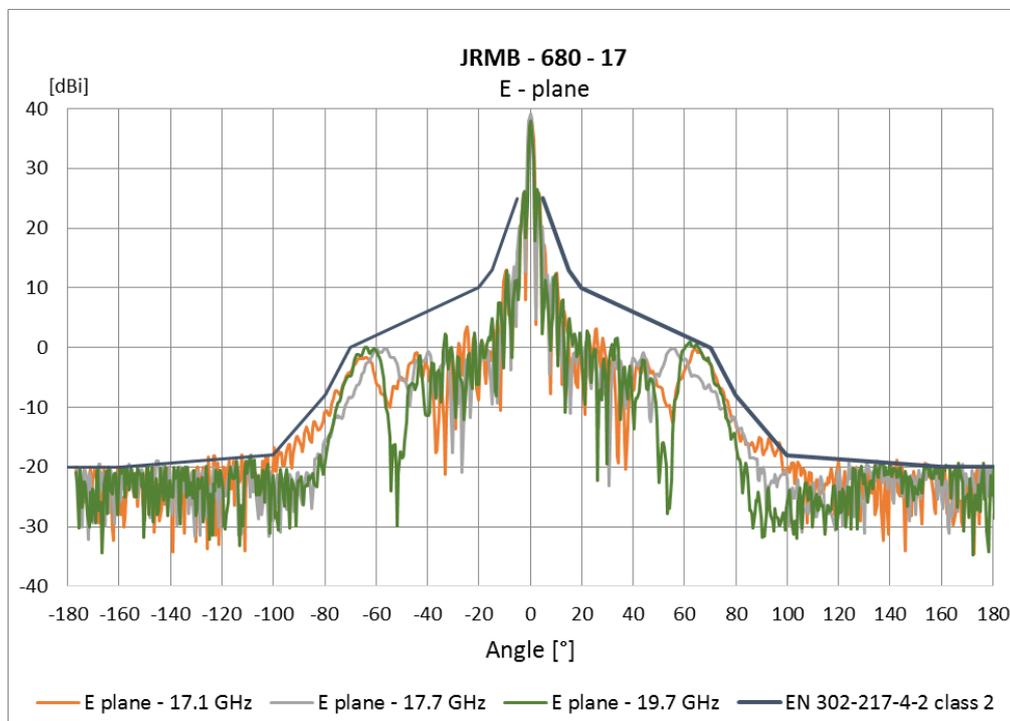
Mechanical parameters:

Parabola	Ø 680 mm, Aluminium alloy
Cover	UV steady plastic ABS
Input / output	Circle waveguide Ø 11 mm
Installation for mast	Ø 40 - 120 mm
Operating wind load	180 km/h (112 mph)
Survival wind load	240 km/h (149 mph)
Weight of antenna	9.3 kg (20.5 lbs.)
of bracket	3.5 kg (7.7 lbs.)
Shipping dimensions	800 mm x 800 mm x 435 mm
Waveguide + fixing of the microwave unit	Racom compatible

The antenna is supplied together with a massive bracket that allows easy mounting on a mast. Antenna bracket can be installed separately on the mast. Subsequently, the antenna with the microwave unit can be simply hang up on it. Whole antenna system has extreme wind stability. The bracket allows fine setting elevation (of gradient) and azimuth ± 20°. It is possible to be mounted to the right and left side. We recommend mounting on the mast with minimum Ø 50 mm in the areas with the occurrence of the adverse weather conditions.

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Measurement of radiation pattern:



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Outline:

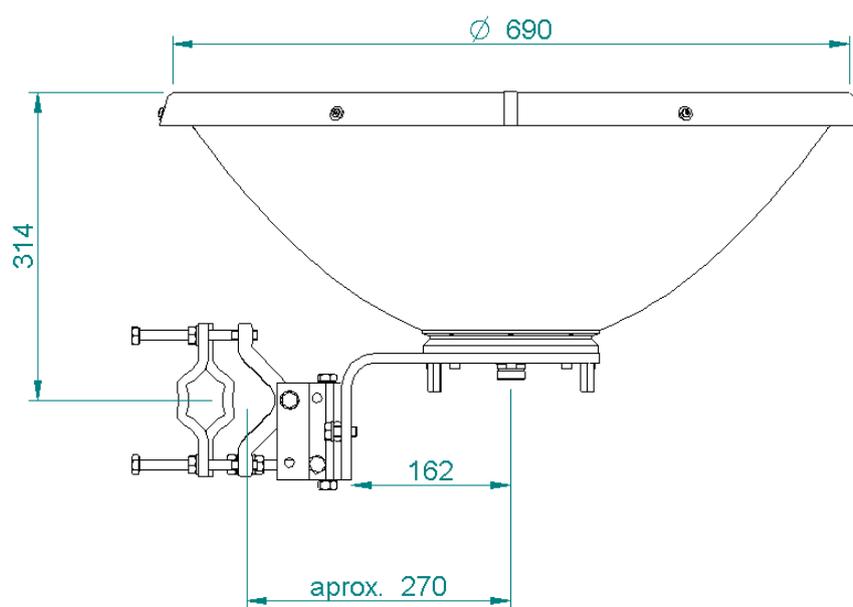


Fig. 1 Antenna dimensions

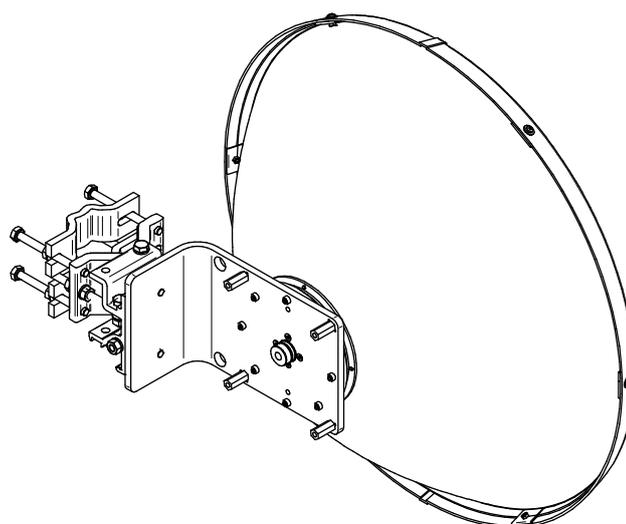


Fig. 2 Antenna with massive bracket (back side)