

# FM four field antenna panels

## TYPES

D II/06

D II/06 Fe

D II/06 Fe/LI

D II/06-L

D II/06-L Fe

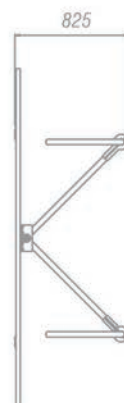
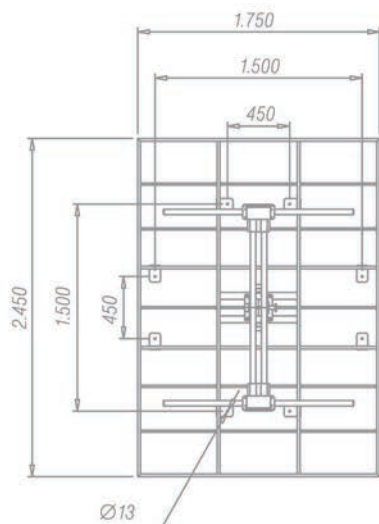
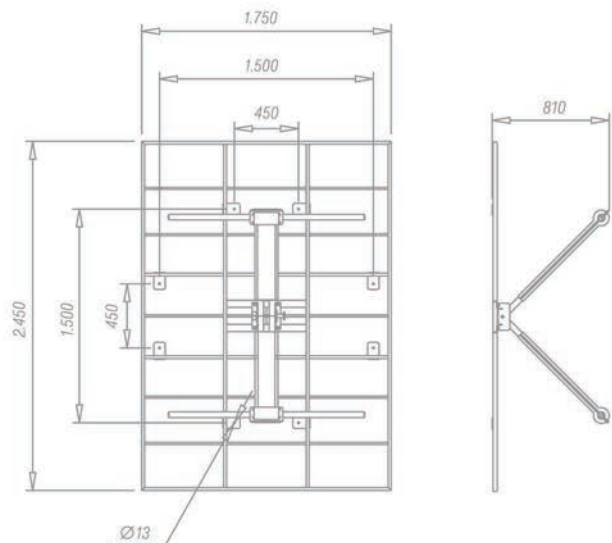
The DII/06 and DII/06-L four field FM broadband antenna panels are designed for applications in professional FM antenna systems, for square and triangular mast-types respectively. Various horizontal and vertical radiation patterns can be achieved with different alignments of the FM antenna panels on the antenna mast. See details on pages 86 - 89.

Both antenna panels are suitable for high power antenna systems, achieved by stacking in tiers. In such cases split system is used, which allows feeding of the antenna system with half power or even full transmitter power when only half antenna system is operating.

Radiating dipoles are anodized aluminium (types DII/06 and DII/06-L). Often are antennas installed in severe weather conditions therefore were developed antennas with hot dip galvanized steel dipoles (types DII/06 Fe and DII/06-L Fe).



D II/06



D II/06-L

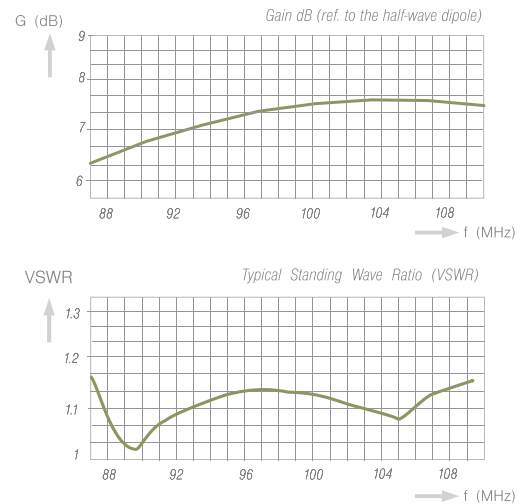
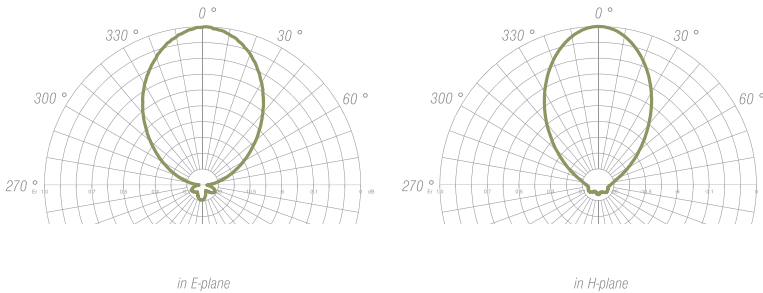
# Specifications

	DII/06 DII/06 Fe, DII/06 Fe/LI	DII/06-L DII/06-L Fe	
Input connector	DIN 7/16, EIA 7/8" or EIA 1 5/8"		
Impedance	50 Ω		
VSWR	≤ 1,20	≤ 1,20	
Frequency range	87,5 - 108 MHz		
Gain (ref. to half wave dipole)	6,5 - 7,5 dB	5,8 - 6,8 dB	
Polarization	horizontal or vertical	horizontal	
Max. input power	2,5 kW (DIN 7/16); 5 kW (EIA 7/8"); 9 kW (EIA 1 5/8")		
Radiation patterns at mid-band: - beam width at -3 dB E plane - beam width at -3 dB H plane	horizontal 64 ° 58 °	vertical 58 ° 64 °	horizontal 71 ° 58 °
Combinations	a certain number of identical panels can be associated to cover a determined geographic area		
Material: - Reflector - Radiating dipoles - Feeders - Radome	hot dip galvanized steel anodized aluminium or hot dip galvanized steel copper and brass polyester		
Mounting	eight holes for M12 mounting bolts		
Icing protection	anti-frost polyester protection covering at the center of the radiating dipoles		
Lightning protection	all metal parts of antenna are DC grounded		
Dimensions (mm)	1.750 x 2.450 x 810		
Weight	53 kg (Fe: 65 kg with EIA 7/8", 71 kg with EIA 1 5/8") Light 45 kg		
Wind load	from the front side - 860 N at 160 km/h from side - 220 N at 160 km/h		
Max. wind velocity	225 km/h		

## Radiation Patterns

### DII/06

at mid-band 98 MHz



## Radiation Patterns

### DII/06-L

at mid-band 98 MHz

