

# MD 118 - 137 Aviation

## DESCRIPTION

Dipole  $1/2 \lambda$  with loaded radial covering the frequency range of 118-137 MHz for aeronautical band. The whip is made of black chromed stainless steel and all the metallic components are of brass or steel to get the best robustness. Thanks to its loaded radial MD 118-137 Aviation doesn't need any metallic ground plane and it is particularly recommended for installation on small aircraft.

## TECHNICAL DATA

### Electrical Data

Type	: Dipole $1/2 \lambda$ with loaded radial
Frequency range	: 118-137 MHz
Impedance	: $50 \Omega$
Radiation (H-plane)	: $360^\circ$ omnidirectional
Polarization	: Vertical
Gain	: 2.15 dBi
Max Power	: 50 Watts
Feed system / position	: Direct / Center
Cable length / Type	: 5m, other length on request / RG58 C/U
Connector	: FME-female, other type on request

### Mechanical Data

Materials	: Stainless Steel 17/7 PH, Nylon, Chromed Brass, Zamac
Wind resistance	: 220 Km/h
Length (approx.)	: 760 mm
Weight (approx.)	: 330 gr
Radial length	: 165 mm
Mounting Hole	: $\varnothing 14$ mm

## MOUNTING INSTRUCTIONS

Install your MD118-138 as far as possible from your body. Drill a  $\varnothing 14$ mm hole on a metal plate of max 1,5mm thickness and clean the painted surface to obtain the best ground contact. Fix the antenna base and the radiator being sure to well lock all the parts.

**Remarks:** The cable must not interfere or disturb the pilot movement. Be sure to well fix the cable from the transceiver to the antenna. Do not use an Input power higher than the allowed one. Occasionally don't forget to check the well-done locking of all fixed parts.

