

MONO BAND VHF RAILWAY ANTENNA

146 ÷ 174 MHz

MFD2-R/F 146/174

TRANSPORT

POLOMARCONI offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

VHF BAND	
Frequency band (MHz)	146 ÷ 174
Impedance (Ω)	50
VSWR 146÷174MHz band 158.100÷158.375MHz band 163.100÷163.375MHz band	≤2.0:1 ≤1.6:1 ≤1.6:1
Continuous Max. Power (W)	30
Polarization	vertical
Gain (dB) over $\lambda/4$ monopole antenna	0

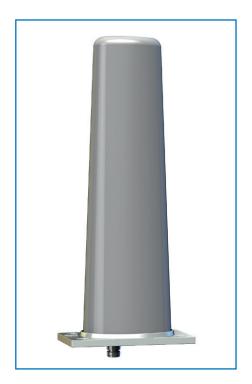
Mechanical Specifications				
Connector			Nf	
Dimensions(Height from installation surface x Width x Depth, mm) 360x80x145				
Weight (kg)		abt. 1.2	
Materials	Base Radome	Aluminium with SURTEC 650 High ir	galvanic treatment npact polycarbonate	
Mounting		at the center of a metalli- with a minimum siz	c conductive surface e of 2000x1000mm.	



Patent nº 1548873

Antenna for train with protective means against high voltages.

Patent has been used by SNCF and by the most important producers of trains.





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Environmental Specifications			
CLIMATIC CONDITIONS according to EN 50155:2017 and EN 60068			
- F	40 ÷ +70 40 ÷ +70		
MECHANICAL CONDITIONS according to EN 50155:2017 and EN 61373			
HIGH VOLTAGE PROTECTION according to EN 50124-1			
HIGH CURRENT PROTECTION according to EN 50153, UIC 758, UIC 533, EN 50388 and EN 50123			
Short-circuit currents flow / time before breaking	40 kA / 100 ms (DC) 15 kA / 100 ms (AC)		
FLAMMABILITY RATING according to EN 45545-2			
IP rating: IP67			
RoHS 2011/65/EU compliant			

MOUNTING FLANGE

Mounting: at the center of a metallic conductive surface with a minimum size of 2000x1000mm; it's advisable to keep the mounting surface clean and free from paint for an optimal electrical contact.

Mounting flange holes are indicated in the relevant mounting instructions document.

Grounding and high voltage protection: Our antennas have passed the strict SNCF's tests that approved our products as protected against lighting and hightension lines thanks to our patented DC and AC grounded system.

DRILLING MASK

