

## **MONO BAND UHF\* ANTENNA**

440 ÷ 470 MHz

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

**MRD-R** 

TRANSPORT

<b>Electrical Specifications</b>		
Frequency band (MHz)	440 ÷ 470	
Impedance (Ω)	50	
VSWR	< 1.7:1	
Continuous Max. Power (W)	30	
Polarization	vertical	
Gain (dB) over $\lambda/4$ monopole	0	
Operating Temp. Range (°C)	-40 ÷ +70	

## **Mechanical Specifications**

Connector	N female	
Dimensions (mm)	140x80x145	
Weight (kg)	abt. 0.5	
Materials base radome connectors	Aluminium with SURTEC 650 treatment High impact polycarbonate Silver plated brass	
Mounting	on metallic surface (600x600 mm minimum)	
Reliability	above to 200,000 hours	



Patent n° 1548873 Antenna for train with protective means against high voltages. Patent has been used by SNCF and by the most important producers of trains.



Environmental Characteristics ATMOSPHERIC and CLIMATIC CONDITIONS according to NF EN 60068		MOUNTING FLANGE
Atmospheric pressure	-40°C, +70°C, 95% HR at 2000 m	
Rain, hail, snow, frost	1000 mm/h, 1 J impact, 0.5 m, 3 cm	
Combined wind and train speed	530 km/h	
MECHANICAL CONDITIONS accor	ding to NF EN 60068, 61373 and 15-818	
Free falls	1 m	Grounding and high volta protection: Our antennas have pas the strict SNCF's tests that approved products as protected against light and high-tension voltage thanks to
Hits (vertical, cross-sectional, longitudinal)	30m/s <sup>2</sup> , 30m/s <sup>2</sup> , 50m/s <sup>2</sup> , 30ms	
Impacts	50 J	
GROUNDING and HIGH VOLTAGE PROTECTION according to NF EN 50388 and NF EN 50123		patented DC and AC grounded syste
Short-circuit currents flow / time before breaking	70 kA / 5 ms – 40 kA / 100 ms (DC)	<ul> <li>*Advantage: UHF frequency could modified on customer's request</li> <li>Approved by: SNCF, SNCB,</li> </ul>

SI rt-circuit currents flow / time before breaking 31,5 kA / 10 ms - 15 kA / 100 ms (AC)

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Made in Italy. We reserve the right to modify these data without any notice.

Data Sheet Rev. 00 - 19/12/2022



## **MONO BAND UHF\* ANTENNA**

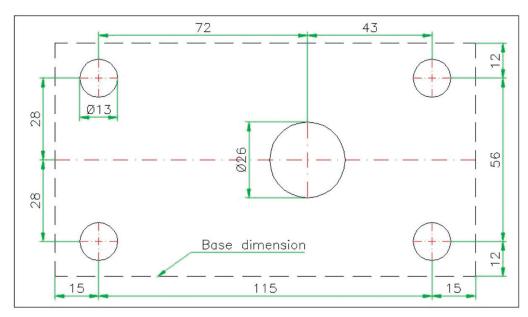
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MOUNTING FLANGE

## TYPE A:



All dimensions are in mm