

Wi-Fi AND WIMAX ROOFTOP DIRECTIONAL ANTENNA

4900 ÷ 5935 MHz

T01362001

RAILWAYS AND TRANSPORT

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

Electrical Specifications				
Wi-Fi and WiMAX BANDS				
Frequency range (MHz):		4900 ÷ 5935		
Input impedance (Ω):		50		
VSWR:		≤ 1.5:1		
Polarization:		linear, vertical		
Gain (dBi):				
	@ 0° of elevation above horizon:	≥ 8		
@15° of elevation above horizon:		≥ 12		
HPBW (deg):	Horizontal plane:	32°		
	Vertical plane:	17°		
Maximum rated RF composite power (W):		100		



NOTE: The above indicated electrical values are measured with the antenna installed at the center of 1000x1000mm metallic conductive ground plane.

RADIATION PATTERNS 330° 270° 270° 210° 180° 210° 180° RADIATION PATTERNS

Horizontal plane: ϑ=-90°, φ variable



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	Machanical Charifications			
Mechanical Specifications				
Dimensions (Height x Width x Depth, mm):	100 x 100 x 315			
Weight (kg):	abt. 1.7			
Mounting:	the antenna need to be installed in longitudinal position with respect to the wind/driving direction			
Ground plane requirement:	the above indicated VSWR values are also valid for installations on non-metallic surfaces, but in order to obtain the above indicated gain and beamwidth values it is necessary to install the antenna at the center of a metallic conductive ground plane of minimum dimensions 1000x1000mm; it's advisable to keep the mounting surface clean for a better electrical contact.			
Body material:	Aluminium with SURTEC 650 treatment			
Radome material:	High impact polycarbonate			
Connector:	Silver plated brass			
Type of connection:	N female			
Operating temperature range (°C):	-40° ÷ +85°			

Environmenta	MOUNTING FLANGE	
ATMOSPHERIC and CLIMATIC Co	- Mounting flange holes are indicated	
Temperature conditions:	-40°C, +85°C	in the relevant mounting instruction
Atmospheric pressure:	-40°C, +85°C, 95% HR at 2000 m	document.
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 accord		
Free falls:	1 m	
Hits (vertical, cross-sectional, longitudinal):	30 m/s ² , 30 m/s ² , 50 m/s ² , 30ms	
Impacts:	50 J	
DC GROUNDING, HIGH VOLTAGE AND		
RoHS 2011/		
Flammability rating according to		