

5 BANDS GSM-DCS-L1 GPS-UMTS-W-LAN ANTENNA

870 ÷ 960 MHz, 1710 ÷ 1880 MHz, 1575.42 MHz, 1920 ÷ 2170 MHz, 2400 ÷ 2485 MHz PDBLUWD1

TRANSPORT

POLOMARCONI.IT

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

Electrical Specifications

MAIN

Frequency range (MHz) GSM DCS UMTS W-LAN	870 ÷ 960 1710 ÷ 1880 1920 ÷ 2170 2400 ÷ 2485
Input impedance (Ω)	50
V.S.W.R.	≤ 2.0:1
Maximum rated RF power (W)	30
Polarization	vertical
Gain (dB over $\lambda/4$ monopole)	0

SATELLITE NAVIGATION AND GEOLOCALIZATION BAND

Frequency band (MHz)	1574.42 ÷ 1576.42
Impedance (Ω)	50
Polarization	Right Hand Circular Polarization (RHCP)
Gain (dBic)	\geq 25 (typical 27), @T ₀ =25°C, V _{DC} =5V
Noise Figure (dB)	\leq 2.5, @T ₀ =25°C, V _{DC} =5V
Operating supply voltage (V_{DC})	3.0 ÷ 7.0
Current consumption (mA)	\leq 35, @T ₀ =25°C, V _{DC} =5V
Satellite navigation and geolocalization supported systems	GPS



Connectors		nale for GSM, DCS, UMTS and W-LAN bands band (SMA female with cable in 3V model)
Dimensions (Height x Wid	lth x Depth, mm)	70x80x145
Weight (kg)		abt. 0.5
	body dome ectors	Aluminium with SURTEC 650 treatment High impact polycarbonate Silver plated brass
Mounting	on metallic	conductive surface (600x600mm minimum)
Operating Ter	np. Range (°C)	-40 ÷ +70



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.





5 BANDS GSM-DCS-L1 GPS-UMTS-W-LAN ANTENNA

870 ÷ 960 MHz, 1710 ÷ 1880 MHz, 1575.42 MHz, 1920 ÷ 2170 MHz, 2400 ÷ 2485 MHz

PDBLUWD1

TRANSPORT

need of an external low noise amplifier GPS as

the internal GPS is already amplified.

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

MOUNTING FLANGE Mounting: on a conductive metallic surface
advisable to keep the mounting surface clean for a better electrical contact.
D1 4 holes flange; see mounting
flange B. PDBLUWD1-3V 3 screws flange: flange with 3 screws included, according to FEDERTRASPORTI 00104/5; see mounting flange C.
ng and high voltage protection:
nas have passed the strict SNCF's approved our products as protected
against lighting and high-tension voltage thanks to our patented DC and AC grounded system.
operate in several frequencies simultaneously, so they don't need demixer.
Multiband: Our multi-band and

70 kA / 5 ms - 40 kA / 100 ms (DC)

31.5 kA / 10 ms - 15 kA / 100 ms (AC)

Short-circuit currents flow / time before breaking



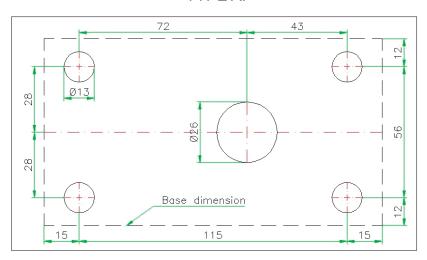
5 BANDS GSM-DCS-L1 GPS-UMTS-W-LAN ANTENNA

870 ÷ 960 MHz, 1710 ÷ 1880 MHz, 1575.42 MHz, 1920 ÷ 2170 MHz, 2400 ÷ 2485 MHz PDBLUWD1

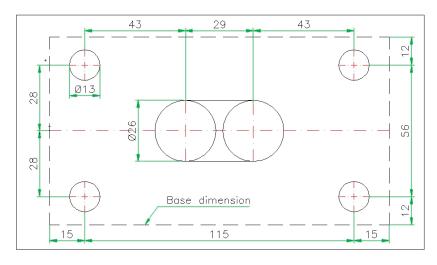
TRANSPORT

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

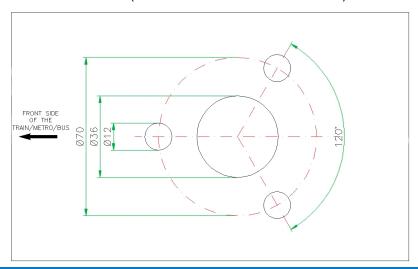
TYPE A:



TYPE B:



TYPE C (FEDERTRASPORTI 00104/5):



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

C2-PUBLIC

3/3