

THREE BAND GSM - DCS - GPS ANTENNA

870 ÷ 960, 1710 ÷ 1880 and 1575.42 MHz

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

TDBLD-3V/S

Electrical Specifications		
Frequency range (MHz)	870 ÷ 960 1710 ÷ 1880	
Input Impedance (Ω)	50	
VSWR	<1.7:1	
Maximum rated RF power (W) 30	
Polarization	vertical	
Gain (dB) over $\lambda/4$ monopo	le 0	
Operating Temp. Range (°C) -40° to +70°	
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_{_{\rm DC}}=5V	
Noise Figure (dB)	\leq 2.5, @T ₀ =25°C, V _{DC} =5V	
Operating supply voltage (V_{DC}) 3 ÷ 7		
Current consumption (mA)	\leq 35, @T ₀ =25°C, V _{DC} =5V	
Satellite navigation and geolocalization GP supported systems		

Mechanical Specifications

Connectors	Silver plated brass
Type of connection	N female for GSM and DCS MCX male 90° with cable for GPS
Dimensions (mm)	140x80x145
Weight (kg)	abt. 0.5
Base material	Aluminium with SURTEC 650 treatment
Radome	High impact polycarbonate
Mounting	on metallic surface (600x600 mm minimum)

Environmental Characteristics

CLIMATIC CONDITIONS according to EN 50155:2017 and EN 60068

Operating Temperature (°)	-40 ÷ +70
Storage Temperature (°)	-40 ÷ +80

MECHANICAL CONDITIONS according to EN 50155:2017 and EN 61373

EMC according to EN 50121-3-2

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	40 kA / 100 ms (DC)

breaking 15 kA / 100 ms (AC)

FLAMMABILITY RATING according to EN 45545-2

IP 67

RoHS 2011/65/EU compliant



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.



MOUNTING FLANGE

Mounting: on a conductive surface with a minimum size of 600x600 mm; it's advisable to keep the mounting surface clean for a better electrical contact.

TDBLD-3V 3 screws flange: flange with 3 screws included; according to FEDERTRASPORTI 0010/45; see mounting instructions on the following page.

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

Advantage: amplifier included; there is no need of an external low noise GPS amplifier as the internal GPS signal is already ampliefied. Approved by: SNCF, SNCB, TRENITALIA

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

C2-PUBLIC



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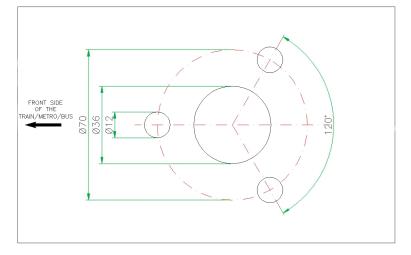
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MOUNTING INSTRUCTIONS

3V MOUNTING FLANGE



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