



THREE BAND GSM - DCS - UMTS ANTENNA

870 ÷ 960, 1710 ÷ 1880, 1920 ÷ 2170 MHz

TDBUD

POLOMARCONI.IT

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

TRANSPORT

Electrical Specifications

Frequency band (MHz)	870 ÷ 960 1710 ÷ 1880 1920 ÷ 2170
Impedance (Ω)	50
VSWR	< 1.7
Continuous Max. Power (W)	30
Polarization	vertical
Gain (dBi)	> 2.5 for GSM-R band > 4 for DCS/UMTS band

Mechanical Specifications

Connector	N female
Dimensions (mm)	140x80x145
Weight (kg)	0.5
Materials	base Aluminium with SURTEC 650 treatment radome High impact polycarbonate connectors Silver plated brass
Mounting	on metallic surface (600x600 mm minimum)



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 Specifications

CLIMATIC CONDITIONS according to EN 50155:2017 and EN 60068

Operating Temperature (°)	-40°C, +70°C
Storage Temperature (°)	-40°C, +70°C

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)
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FLAMMABILITY RATING according to EN 45545-2

IP 67

RoHS 2011/65/EU compliant

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.

TDBUD 4 holes flange: flange with 4 M10 studs included; see mounting flange A on page 33.

TDBUD-3V 3 screws flange: flange with 3 screws included

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

Approved by: SNCF, SNCB, TRENITALIA