

DUAL BAND UHF*-GSM/R ANTENNA

440 ÷ 470 and 876 ÷ 960 MHz

BRGD2

RAILWAYS AND **TRANSPORT**

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



Connectors

Weight (kg)

Mounting

Reliability

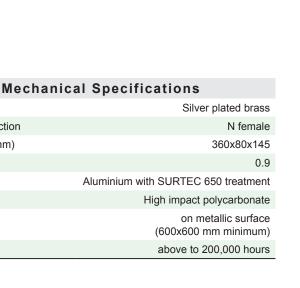
Base material Radome

Type of connection

Dimensions (mm)

Electrical Specifications				
Frequency Band (MHz)	440 ÷ 470 876 ÷ 960			
Impedance (Ω)	50			
VSWR	<1.7			
Continuous Max. Power (W)	30			
Polarization	vertical			
Gain (dB) over \(\lambda / 4 \) monopole	0 for RST band 3 for GSM/R band			
Operation Temp. 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.



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Environmenta	MOUNTING FLANGE		
ATMOSPHERIC and CLIMATIC (- Mounting: on a conductive surface with a		
Temperature conditions	-40°C, +70°C	minimum size of 600x600 mm; it's advisable to keep the mounting surface clean for a better electrical contact. BRGD2 4 holes flange: flange with 4 M10 studs included:	
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 acco			
Free falls	1 m	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	
Hits (vertical, cross-sectional, longitudinal)	30m/s², 30m/s², 50m/s², 30ms		
Impacts	50 J		
GROUNDING and HIGH VOLTAGE PROTECT	to our patented DC and AC grounded system. *Advantage: UHF frequency could be		
Short-circuit currents flow / time before breaking	70 kA / 5 ms – 40 kA / 100 ms (DC) 31,5 kA / 10 ms – 15 kA / 100 ms (AC)	modified on customer's request Approved by: SNCF, SNCB, TRENITALIA	