

ELECTRIC CHARACTERISTICS

MAIN

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|-------------------------|----------------------------|
| Frequency range: | 155-165 MHz 440-470 MHz |
| Input impedance: | 50 Ω |
| V.S.W.R.: | <1,6:1 |
| Maximum rated RF power: | 30 W |
| Polarization: | vertical |
| Gain: | 0 dB over λ/4 monopole |

GROUNDING
AND HIGH-VOLTAGE
PROTECTION:
SNCF APPROVED



MECHANICAL CHARACTERISTICS

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| Dimensions: | 360x80x145 mm |
| Total weight: | abt. 0,8 kg |
| Mounting: | on metallic surface (600x600 mm minimum) |
| Body material: | Aluminium with SURTEC 650 treatment |
| Radome material: | High impact polycarbonate |
| Connectors: | Silver plated brass |
| Type of connection: | N female |
| Operating temperature range: | -40° to +70°C |
| Reliability: | above to 200,000 hours |

MOUNTING FLANGE

Mounting: on a conductive surface with a minimum size of 1500x1500 mm; it's advisable to keep the mounting surface clean for a better electrical contact.

MUD 4 holes flange: flange with 4 M10 studs included; see mounting flange A on page 39.

MUD-3V 3 screws flange: flange with 3 screws included, according to FEDERTRASPORTI 00104/5; see mounting flange C on page 39.

ENVIRONMENTAL CHARACTERISTICS

ATMOSPHERIC and CLIMATIC CONDITIONS according to NF EN 60068

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|-------------------------------|------------------------------------|
| Temperature conditions | -40°C, +70°C |
| Atmospheric pressure | -40°C, +70°C, 95% HR at 2000 mt |
| 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 according to NF EN 60068, 61373 and 15-818

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| Free falls | 1 m |
| Hits (vertical, cross-sectional, longitudinal) | 30 g, 30 g, 50 g, 30ms |
| Impacts | 50 J |

GROUNDING and HIGH VOLTAGE PROTECTION according to NF EN 50388 and NF EN 50123

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| 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) |
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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:** UHF frequency range could be modify on Client request.

Approved by: SNCF, SNCB, TRENITALIA