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|  | DUALBAND VHF - UHF\* ANTENNA  155-165 MHz, 440-470 MHz | BFRD2  BFRD2- 3V |
| LeAntenne offers a very wide range of multi-band antennas. Our products can be tailored according to the customer’s need. Antenna includes international patent for safety and  security system |

**ELECTRIC CHARACTERISTICS**

**MAIN**

Frequency range: 155-165 MHz

440-470 MHz

Input impedance: 50 Q

V.S.W.R.: <1,6:1

Maximum rated RF power: 30 W

Polarization: vertical

Gain: 0 dB over A/4 monopole

GROUNDING AND HIGH-VOLTAGE PROTECTION:

SNCF APPROVED

**MECHANICAL CHARACTERISTICS**

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

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| **ATMOSPHERIC and CLIMATIC CONDITIONS according to NF EN 60068**  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**  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**  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) | **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 |

**Complete datasheet with full characteristics and radiation patterns on request**