



MONO BAND GPS ANTENNA

1575.42 MHz

MLV-R

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

SATELLITE NAVIGATION AND GEOLOCALIZATION BAND

Frequency band (MHz)	1574.42 ÷ 1576.42
Impedance (Ω)	50
Polarization	Right Hand Circular Polarization (RHCP)
Gain (dBic)	≥ 25 (typical 27), @ $T_0=25^\circ\text{C}$, $V_{\text{DC}}=5\text{V}$
Noise Figure (dB)	≤ 2.5 , @ $T_0=25^\circ\text{C}$, $V_{\text{DC}}=5\text{V}$
Operating supply voltage (V_{DC})	3 ÷ 7
Current consumption (mA)	≤ 35 , @ $T_0=25^\circ\text{C}$, $V_{\text{DC}}=5\text{V}$
Satellite navigation and geolocalization supported systems	GPS



Mechanical Specifications

Connector	TNC f
Dimensions (Height from installation surface x Base diameter, mm)	32.5 x ϕ 75
Weight (kg)	0.3
Materials	Base Aluminium with SURTEC 650 galvanic treatment Radome High impact polycarbonate Connectors Silver plated brass
Mounting	at the center of a metallic conductive surface with a minimum size of 250x250mm
Reliability (hours)	> 200,000

Environmental Specifications

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 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 according to NF EN 60068, 61373 and 15-818

Free falls	1 m
Hits (vertical, cross-sectional, longitudinal)	30m/s ² , 30m/s ² , 50m/s ² , 30ms
Impacts	50 J

RoHS 2011/65/EU compliant

FLAMMABILITY RATING according to EN 45545-2

IP rating: IP67

MOUNTING FLANGE

Mounting: for the optimal performance we suggest at the center of a metallic conductive surface with a minimum size of 250x250mm; for different ground plane dimensions see page 2; it's advisable to keep the mounting surface clean and free from paint for an optimal electrical contact.

Mounting with a drilling hole of 16.5 mm of diameter



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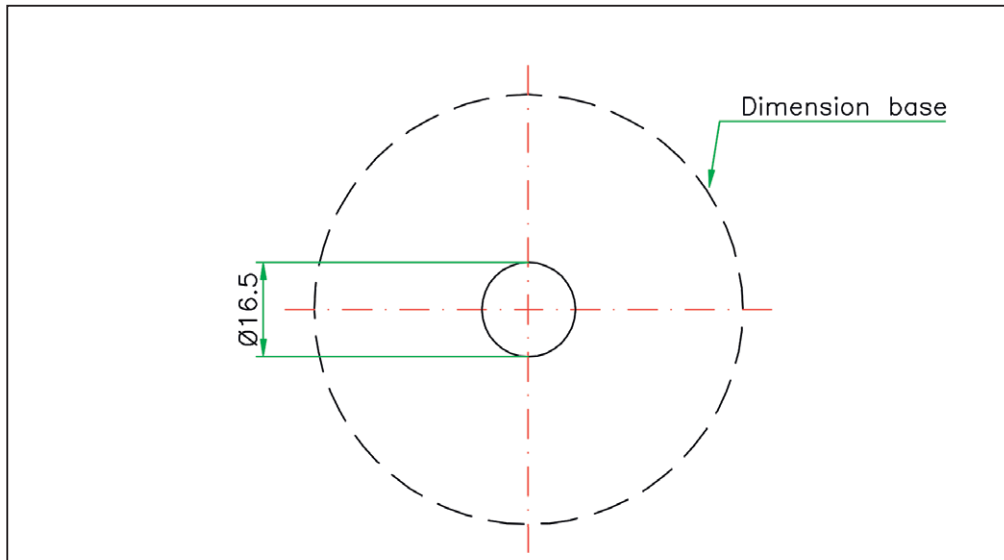
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DRILLING MASK



All dimensions are in mm