



# VHF, UHF AND GPS VEHICULAR ANTENNA

150 ÷ 174 MHz, 380 ÷ 400 MHz and 1575.42MHz

17100108K/A

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

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## Electrical Specifications

### VHF

Type	$\lambda/4$ monopole
Frequency range (MHz)	150 ÷ 174
VSWR (antenna mounted at the edge of 2000x1400x850 mm metallic table)	< 2:1
Gain (dB, over $\lambda/4$ monopole antenna)	0

### TETRA

Type	$\lambda/4$ monopole
Frequency range (MHz)	380 ÷ 400
VSWR (antenna mounted at the edge of 2000x1400x850 mm metallic table)	< 2:1
Gain (dB, over $\lambda/4$ monopole antenna)	0

### VHF and TETRA common data

Input impedance ( $\Omega$ )	50
Continuous Max. Composite Power (W)	30
Polarization	linear

### GPS

Antenna type	Active patch antenna
Center frequency (MHz)	1575,42
Impedance ( $\Omega$ )	50
VSWR	< 2:1
Polarization	Right Hand Circular
Supply voltage (Vdc)	3÷5
Consumption current (mA)	30 max
Gain passive patch (dBi)	1 min (measured on 70x70mm ground plane)
Gain LNA (dB)	29 typ. (5 Vdc power supply)
Noise Figure (dB)	2 max. (5 Vdc power supply)
Attenuation (dB)	28 min. (@ 1575.42 ± 100 MHz)
Operation Temp. Range (°C)	-40 ÷ +70

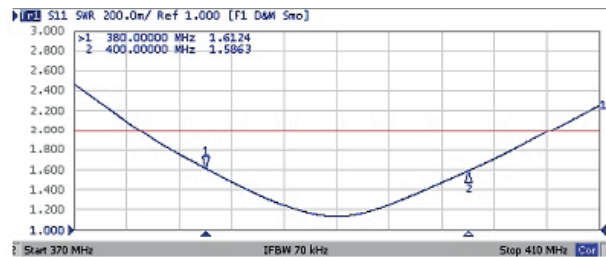
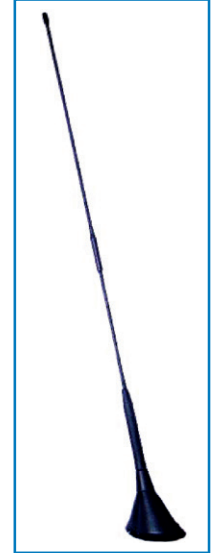
## Duplexer Main Specifications

Frequency range (MHz)	Low port: 0-180 High port : 320-500
Input impedance ( $\Omega$ )	50
Continuous Max. Power (W)	35
Insertion loss (dB)	0-180 MHz: $\leq 0,5$ 320-500 MHz: $\leq 0,7$
Isolation	Low to high port: $\geq 30$ dB
Operation Temp. Range (°C)	-40 ÷ +70
Connectors	Ant.: TNC female Low Port: BNC Female High Port: BNC Female
Dimensions (mm)	84x134x32
Total weight (kg)	abt. 0,3
Materials	Body material Aluminium with SURTEC 650 treatment Silver plated brass Connectors

## Mechanical Specifications

Type of connections	see page 2
Connector for VHF, UHF and GPS	see page 2
Length	see page 2
Extension cable	see page 2

Whip length	abt. 510 mm max
Total weight (kg)	abt. 0,3
Whip material	steel
Mounting	see perforation mask



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