



# VHF, UHF AND GPS VEHICULAR ANTENNA

150 ÷ 174 MHz, 410 ÷ 430 MHz and 1575.42MHz

17100109K

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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)	410 ÷ 430
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

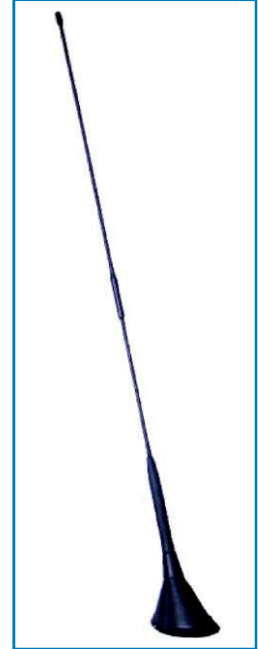
Input impedance ( $\Omega$ )	50
Continuous Max. Composite Power (W)	30
Polarization	linear

### 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°

## Mechanical Specifications

Type of connections		
Connector for VHF, UHF and GPS		see page 2
Length		see page 2
Extension cable		see page 2
Whip length		abt. 540 mm max
Total weight (kg)		abt. 0,3
Whip material		steel
Mounting		see perforation mask



## 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: ≤ 0,5 320-500 MHz: ≤ 0,7
Isolation	Low to high port: ≥ 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
Connectors	Silver plated brass



BY



Made in Italy. We reserve the right to modify these data without any notice.

1 / 2



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